SERPENT RIVER BASIN
WATER QUALITY DATA, 1981

Water Resources Assessment
Northeastern Region
1982

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INTRODUCTION

As part of the Environmental Assessment Hearings on the Expansion of the Uranium Mining Facilities in Elliot Lake the Environmental Assessment Board heard evidence on the extent of the water quality monitoring programs conducted by various agencies at various locations on the Serpent River system.

The board's deliberations resulted in recommendation 11-13 (page 184; The Expansion of the Uranium Mines in the Elliot Lake Area, Final Report May, 1979): "the Board recommends that all data obtained from the water quality monitoring programs of the companies and the province be exchanged and be available to the public".

To satisfy this recommendation, the Northeastern Region Water Resources Assessment Section have prepared the following report. The report collates water quality information in the Serpent River basin that is not already published. A major sub-set of data that is not included appears in the annual publication; Water Quality Data Ontario Lakes and Streams 1981.

The agencies use different Station identification codes. A section to correlate and cross reference is included, the map (back flap) identifies these locations.

Universal Transverse Mercator Grid (UTM) designation that appears on the tables in the station information and correlation section can be used in reference to topographical maps. 41J9 Madanason Lake, 41J10 Rawhide Lake, 41J7 Elliot Lake, 41J8 Whiskey Lake, 41J2 Algoma.

There is need to take precautions in interpreting these data without reference to other data since changes in water quality are continuing in the Serpent River. Primarily significant water quality improvements are occurring. Readers are referred to the following publications for the interpretative significance of the information:

Water Management, Goals, Policies and Implementation Procedures of the Ministry of the Environment, November, 1978;
Guidelines for Canadian Drinking Water Quality, 1978; and Environmental Assessment of the proposed Elliot Lake Uranium Mines Expansions (various volumes).

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- Mr. R. Winson and staff of the Cartography and Drafting Section for preparation of the map.
- Mr. A. C. Roy for his assistance.
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RIO ALGOM LIMITED : STATION : LOCATIONS, PHYSICAL DESCRIPTIONS, AND EQUIVALENT STATION REFERENCE TABLE.

STATION	UTM COORDINATES		PHYSICAL DESCRIPTION	EQUIVALENT STATION			
	EASTING	NORTHING		DENISON	M. O. E. W.Q.M.	M. O. E. S.S.M.	M.O.E. TECH. SUPPORT
Q3	373100	5151650	Tailings Pond Effluent after Barium at Dam 'E'		051	Q3	
Q6	373600	5151500	Tailings Effluent to Serpent River at Highway 108				
Q8	374060	5151050	Serpent River above effluent addition at Mine Road	D5	014		
Q9	377100	5151900	Serpent River below effluent addition at Flow Station				
Q10	370500	5151500	Gravel Pit Lake, effluent (outlet)				
Q11	370375	5150900	Creek at Inlet to Dunlop Lake at Access Road		022		
Q12	370500	5151400	Pond 'A' effluent			Q12	
Q13	371250	5150750	Evans Lake Outlet				
Q15	368200	5151400	Dunlop Lake, bay where creek from gravel pit enters				
Q16	373900	5151700	Johnson's Creek below mill at mine road				
Q18	375800	5150900	Lake D. At Pump House			LK-D	
Q19	373200	5149100	Dunlop Lake at pumphouse				
P1	383100	5150450	Rochester Creek Outlet at Quirke Lake Inlet		010		
P2	382300	5152800	Downstream of Dam 'B' Old Strike Lake OUtlet				
P3	383100	512200	Number 3 Beaver Pond Outlet				
P5	382000	5153300	Swamp Outlet at northeast end of Strike Lake				
P8	381000	5150300	Quirke Lake at Panel Pump House				
P11	380900	5150900	Panel Creek at Inlet to Quirke Lake				
P12	381900	5150700	Creek inlet to Quirke Lake by Panel Townsite			P14	
P14	381800	5151500	treated effluent				
S1	373800	5141700	Stroath Lake at pumphouse				
S2	370800	5140900	Penelope Lake Outlet				
S3	373600	5140200	Stanleigh Area Creek at mine road				
M1	372100	5139900	Sheriff Creek at Highway 108		009	M1	
M3	375800	5140200	Sheriff Lake Outlet				
CL4	377900	5141500	Crotch Lake Outlet		006	CL4	
L1	376600	5138800	Dumbell Lake Outlet				
L2	374500	5138400	Lacnor Creek at Townsite				
N12	377150	5136600	Buckles Creek at Highway 108		007	N12	BC3
N13	378850	5137450	Buckles Creek, upstream of Operation		044	N15	
N15	374975	5137700	Westner Lake effluent at Ski Club Road		043	N19	BC2
N19	377700	5137100	North Nordic Lake effluent				
PR1	369000	5117650	Pronto effluent at Highway 17		023	PR1	
PR4	368000	5118000	Treated effluent O/F Settling area				
SR1	385725	5149050	Quirke Lake Outlet	D10	049		
SR2	384800	5138650	Pecors Lake Inlet from Hough Lake	PEC1	004		
SR3	389400	5136400	Pecors Lake Outlet	PEC0	003		
SR4	372000	5138450	Elliot Lake at pumphouse		027		
SR6	380600	5143000	McCabe Lake Outlet				

DENISON MINES LIMITED : STATION : LOCATIONS, PHYSICAL DESCRIPTIONS, AND EQUIVALENT STATION REFERENCE TABLE.

STATION	UTM COORDINATES		PHYSICAL DESCRIPTION	EQUIVALENT STATION			
	EASTING	NORTHING		RIO ALGOM	M.O.E. W.Q.M.	M.O.E. S.S.M.	M.O.E. TECH. SUPPORT
D1	374500	5148900	Long Lake outlet				
D2	374200	5149800	Stollery Lake Outlet			D2	
D3	374540	5150510	Beaver Pond Effluent at Mine Access Road		045	D3	
D4	373450	5148600	Serpent River Above Operations		019		Sr1
D5	374060	5151050	Serpent River Below Operations	Q8	014		
D6	374300	5148500	Cinder Lake Outlet				
D9	377100	5148500	Seepage Ditch at Dam '17'				
D10	385725	5149050	Quirke Lake Outlet	SR1	049		
D13	374500	5148800	Toe Dam Seepage, Dam '10' Long Lake Seepage				
DS1	383500	5145900	New Dam Overflow Moose Lake Overflow			DS1	
DS4	383900	5146200	Outlet of Lake, Below New Dam at Orient Lake		070	DS4	
PEC I	384800	5138650	Pecors Lake Inlet	SR2	004		
PEC 0	389400	5136400	Pecors Lake Outlet	SR3	003		

MINISTRY OF THE ENVIRONMENT
TECHNICAL SUPPORT DATA

STATION : LOCATIONS, PHYSICAL DESCRIPTIONS, AND EQUIVALENT STATION REFERENCE TABLE.

STATION	UTM COORDINATES		PHYSICAL DESCRIPTION	EQUIVALENT STATION			
	EASTING	NORTHING		RIO ALGOM	DENISON	M.O.E. W.Q.M.	M.O.E. S.S.M.
BC-1	377650	5136800	Buckles Creek, Control				
BC-2	377700	5137100	Buckles Creek, Discharge	N19		043	N19
BC-3	377150	5136600	Buckles Creek, at Highway 108	N12		007	N12
BC-4	376650	5135700	Buckles Creek, at Inlet to Nordic Lake				
BC-5	375900	5134500	Buckles Creek, Outlet of Nordic at Wier				
BC-6	375300	5133700	Buckles Creek, at Inlet to Esten Lake				
BC-7	376100	5133350	Buckles Creek, at Esten Lake Diversion				
McL-1	385700	5131475	McCarthy Lake, centre of West End			039	
McL-2	388900	5131500	McCarthy Lake, North Shore of East Basin				
McL-3	388450	5129100	McCarthy Lake, Centre of Southern Basin			040	
McL-4	388400	5131050	McCarthy Lake, Southeast Shore of East Basin				
McL-5	392400	5131200	McCarthy Lake, End of Northeast Bay				
McL-6	390200	5130500	McCarthy Lake, End of Southeast Bay				
DL-1	377850	5133050	Depot Lake, West End				
DL-2	380900	5133050	Depot Lake, East End				
DL-3	377500	5132300	Depot Lake, South Arm				
HL-1	373200	5138600	Horne Lake, middle of lake				
HL-2	373100	5139300	Horne Lake, middle of North Basin				
ML-1	377250	5135900	Metevier Lake, center of lake				
UL-1	375450	5134200	Unnamed Lake, middle of lake				
TL-1	377550	5131250	Trout Lake, middle of lake				

MINISTRY OF THE ENVIRONMENT
TECHNICAL SUPPORT SECTION

STATION : LOCATIONS, PHYSICAL DESCRIPTIONS, AND EQUIVALENT STATION REFERENCE TABLE.

STATION	UTM COORDINATES		PHYSICAL DESCRIPTION	EQUIVALENT STATION			
	EASTING	NORTHING		RIO ALGOM	DENISON	M.O.E. W.Q.M.	M.O.E. S.S.M.
EL 1	369400	5134250	Esten Lake, North Shore of West End			067	
EL 2	372700	5133700	Esten Lake, East tip of Large Island				
EL 3	371000	5134350	Esten Lake, North Shore of island middle of lake				
EL 4	373950	5133650	Esten Lake, Centre of East End				
ELL 1	367100	5138700	Elliot Lake, Centre of West End				
ELL 2	371150	5138750	Elliot Lake, Centre of East End				
ELL 3	366100	5137850	Elliot Lake, centre of Southwest Bay				
ELL 4	369400	5138800	Elliot Lake, middle of lake				
ELL 5	372200	5139400	Elliot Lake, centre of Northeast Bay				
ELL S.T.P.	373300	5134250	Elliot Lake, sewage treatment plant, final effluent				
Sr 1	373450	5148600	Serpent River, Dunlop Lake outlet, at Highway 108		D4	019	
Sr 2	374200	5150000	Serpent River at Denison Mine Access Road				
Sr 3	374100	5151850	Serpent River, at Panel Road				
Sr 4	376650	5151050	Serpent River, at Panel Road, past New Quirke Mine				
MAL-1	373250	5130300	Marshland Lake, West End				
MAL-2	374300	5130800	Marshland Lake, middle of lake, in Northern Bay				
GL-1	375850	5131000	Grandeur Lake, North End				
GL-2	376400	5130100	Granduer Lake, South End				
NL-1	376150	5135600	Nordic Lake, middle of Northwest Bay				
NL-2	377450	5135200	Nordic Lake, middle of East End				
NL-3	376700	5135150	Nordic Lake, at entrance to Southwest Bay				

Ministry of the Environment
Sault Ste. Marie District Office

STATION : LOCATIONS, PHYSICAL DESCRIPTIONS, AND EQUIVALENT STATION REFERENCE TABLE.

STATION	UTM COORDINATES		PHYSICAL DESCRIPTION	EQUIVALENT STATION			
	EASTING	NORTHING		RIO ALGOM	DENISON	M.O.E. W.Q.M.	M.O.E. TECH. SUPPORT
D2	374200	5149800	Stollery Lake Outlet		D2		
D3	374540	5150510	Mine Access Road, Beaver Pond effluent		D3	045	
DS1	383500	5145900	Moose Lake overflow at New Dam		DS1		
DS4	383900	5146200	Outflow of Pond below dam of Orient Lake		DS4	070	
Q3	373100	5151650	Overflow at Dam 'E:	Q3		051	
Q12	370500	5151400	Pond Water from Pond "A:	Q12			
N12	377150	5136600	Buckles Creek at Highway 108	N12		007	BC3
N15	374975	5137700	Westner Lake at Ski Club Road	N15		044	
N19	377700	5137100	North Nordic Lake effluent	N19		043	BC2
P11	380900	5150900	Panel Creek at Inlet to Quirke Lake	P11			
P13	381700	5151700	Treatment Area Feed	P13			
P14	381800	5151500	Effluent Treated	P14			
CLA	377900	5141500	Discharge from Crotch Lake	CLA		006	
M1	372100	5139900	Sheriff Creek at Highway 108	M1		009	
PR1	369000	5117650	Treated effluent at Highway 17	PR1		023	
PR4	368000	5118000	Outlet of Settling Pond, Treatment Plant	PR4			
LK-D	375800	5150900	Lake D - Centre of Lake (Sampled by Rio Algom)	Q18			
RY-LK	379050	5137050	Ryan Lake - Centre of Lake (Sampled by Rio Algom)				
DL-LK	372900	5149000	Dunlop Lake - Centre of Lake (Sampled by Rio Algom)	Q19			

MINISTRY OF THE ENVIRONMENT
WATER QUALITY MONITORING

STATION : LOCATIONS, PHYSICAL DESCRIPTIONS, AND EQUIVALENT STATION REFERENCE TABLE.

STATION	UTM COORDINATES		PHYSICAL DESCRIPTION	EQUIVALENT STATION			
	EASTING	NORTHING		RIO ALGOM	DENISON	M.O.E. S.S.M.	M.O.E. TECH. SUPPORT
001	383350	5118400	At Old Highway 17, East of Highway 108 and 17				
002	381500	5132250	At Depot Lake Outlet				
003	389400	5136400	At Pecors Lake Outlet	SR3	PEC 0		
004	384800	5138650	At Pecors Lake Inlet	SR2	PEC I		
006	377900	5141500	At Crotch Lake Outlet	CL4		CL4	
007	377150	5136600	Buckles Creek at Highway 108 South of Elliot Lake	N12		N12	BC3
009	372100	5139900	Sheriff Creek at Highway 108	M1		M1	
010	383100	5150450	Rochester Creek near Quirke Lake Inlet	P1			
011	376550	5151850	Serpent River near Quirke Lake Inlet				
012	380900	5147400	Creek near road to Stanrock Townsite				
014	374060	5151050	Serpent River at Panel Mine side road	Q8	D5		
017	374500	5149100	Stollery Lake at Denison Dam				
019	373450	5148600	Serpent River, Dunlop Lake Outlet		D4		Sr1
022	370375	5150900	Bud Lake Control, West End of Bud Lake Tailings	Q11			
023	369000	5117650	Pronto Lake Outlet	PR1		PR1	
027	372000	5138450	Elliot Lake, at Elliot Lake Municipal Pump House	SR4			
030	372900	5149000	Dunlop Lake, in Bay				
031	379400	5147075	Quirke Lake, Southwest of Stanrock Mine				
032	382650	5149100	Quirke Lake, Northeast of Can-Met Mine				
033	382500	5147450	Quirke Lake, Southeast Corner				
034	377800	5149100	Quirke Lake, East of Denison Mine				
035	396300	5140000	Whiskey Lake, South end near Rum Point				
036	379825	5142000	McCabe Lake, Centre of Lake				
037	388850	5120950	Camp Lake, at South End				
038	370700	5117275	Serpent Harbour, near hospital point				
039	385700	5131475	McCarthy Lake at West End				
040	388450	5129100	McCarthy Lake at South End				
041	385300	5140350	Hough Lake, at center of lake				McL-1
043	377700	5137100	North Nordic Lake, at effluent channel				McL-3
044	374975	5137700	Westner Lake, at Ski Club Road	N19		N19	BC2
045	374540	3150510	Williams Creek at Denison Mines access road	N15		N15	
049	385725	5149050	Serpent River at Quirke Lake Outlet		D3	D3	
051	373100	5151650	Bud Lake Tailings, Effluent from Bud lake at Dam 'E'	SR1	D10		
054	386200	5142375	May Lake, South End	Q3		Q3	
055	385200	5144375	May Lake, North End				
067	369400	5134250	Esten Lake, Centre of West End				
070	383300	5145900	Orient Lake Outlet				EL1
071	381725	5152650	Panel Mines Tailings effluent		DS4	DS4	

Note: Data for Ministry of Environment Water Quality Monitoring Program is not presented here. This data is available from Ministry of Environment publication entitled WATER QUALITY DATA ONTARIO LAKES AND STREAMS, 1981.

RIO ALGOM LIMITED

DATA

STATION .. Q-3 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L		MEASURED IN mg/L																								
					SOLIDS		URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N"				MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
			TOTAL	DISS.	TOTAL	SUSP.				NH_3	TKN.	NO_2	NO_3																
01	3706	9.15	104	11.8	3149	14	0.17	110		65.1	67.3	7.1	110.3	8.70				0.07		1618	.020	.043	1.30	.036	.029	.110	.010
02	3791	9.12	117	10.0	2971	9	0.14	116		69.2	71.8	5.8	106.8	5.20				0.03		1543	.018	.018	0.72	.021	.026	.110	.007
03	3892	8.97	92.5	8.7	3063	6	0.10	91		72.8	75.3	5.5	102.5	7.20				0.08		1634	.018	.027	1.20	.036	.039	.170	.007
04	4842	8.62	72.0	7.5	2837	5		66		62.5	65.1	4.6	88.3	5.90				0.06		1535	.001	.028	0.74	.020	.062	.140	.009
05	3525	7.30	44.0	4.6	3062	4	0.22	31		64.4	67.9	4.4	96.0	7.90				0.01		1630	.014	.036	0.84	.056	.027	.260	.019
06	3659	7.36	42.0	4.1	2861	7	0.08	23		69.8	72.1	5.8	96.3	3.00				0.10		1604	.032	.070	1.80	.058	.054	.340	.017
07	3157	7.86	47.0	4.1		8		32		67.4	71.1	6.6	96.0					0.02									
08	2244	6.67	17.3	2,5	2992	5	0.06	13	22	46.4	49.8	7.9	88.8	10.00				0.10		1662	.024	.056	1.85	.055	.054	.380	.016
09	2489	6.60	29.5	2.2	2916	4	0.17	9		44.6	48.0	8.7	91.0	16.00				0.07		1616	.016	.075	4.90	.076	.084	.450	.053
10	2775	8.11	47.5	6.6	2857	5	0.32	34		50.4	52.6	9.8	94.7	5.10				0.03		1824	.017	.043	0.74	.050	.140	.250	.008
11	2993	8.23	29.0	1.9	3101	9	0.36	48		64.6	66.1	9.0	92.5	6.90				0.04		1696	.015	.006	0.93	.037	.062	.360	.019
12	3635	8.36	144	4.4	3124	11	0.22	37		80.7	83.6	7.7	117.7	7.70				0.05		1726	.013	.041	5.60	.045	.036	.320	.024
Avg.	3392	8.03	65.5	5.7	2994	7	0.18	51		63.2	65.9	6.9	98.4	8.51				0.05		1644	.017	.040	1.87	.045	.056	.263	.017

STATION .. Q-6 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		8.60		11	2490			80	N	85.0			84.7														
02		8.80	45	8	2721			89	N	45.0			100.0														
03		8.70		4	1391			50	N	33.0			49.0							1476							
04		7.00	5	2	376			8	7	10.0			14.0														
05		7.65	14	2	1868			27	16	44.0			62.0														
06		7.10	7	3	2262			22	24	53.2			72.5							1042							
07		6.64		5	1882			15	30	42.0			59.8														
08		5.85	5	3	1891			5	40	34.0			59.0							1097							
09		6.57		3	2616			8	15	40.0			76.0														
10		6.72	9	3	2652			8	14	42.0			78.0														
11		8.26		2	1940			32	1	33.5			54.2							1028							
12		6.80	22	3	2447			10	20	59.0			87.0														
Avg.		7.41	15	4	2045			30	14	43.4			66.4							1161							

STATION .. Q-8 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
										MEASURED IN mg/L																	
01	4150	8.05	13	3	1079			26	5	22.7	24.0	2.00	34.0	3.60													
02	16150	8.50	25	5	1298			34	N	25.9	26.8	1.40	40.0	8.60						622							
03	33260	6.90	11	5	253			8	5	4.0	5.2	0.20	6.4	1.30													
04	66950	6.80	11	3	333			8	4	4.8	5.8	0.30	7.9	1.50													
05	24575	6.70	3	2	150			5	3	2.4	4.5	0.20	3.6	0.97						59							
06	30900	7.00	6	2	1346			21	6	15.8	16.3	1.90	36.3	3.80													
07	22400	6.64	7	5	293		0.01	8	6	2.7	4.9	0.86	6.6	0.46				0.09		130	.006	.002	0.05	.003	.002	.020	.007
08	13825	7.10	4	2	1128			16	10	7.7	8.1	1.73	34.3	1.50						516							
09	9750	7.23	5	3	669			9	3	5.8	6.6	1.47	16.3	2.10													
10	10660	7.24	5	3	2381			16	8	22.7	23.2	4.90	59.0	4.00													
11	7425	8.69	8	3	1948			38	N	17.9	18.6	4.10	45.1	3.40						1050							
12	7400	8.85	21	1	2331			49		21.3	22.9	3.60	82.0	2.30													
Avg.	20620	7.47	10	3	1101			20	5	12.8	13.9	1.89	31.0	2.79						475							

STATION .. Q-9 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L		MEASURED IN mg/L																								
					SOLIDS					NITROGEN AS "N"																			
			TOTAL	DISS.	TOTAL	SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NH_3	TKN.	NO_2	NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01	18014	8.60	22	3	1738			51	N	34.0	35.5	3.60	54.3	4.30															
02	39822	8.50	21	7	1666			46	N	35.2	36.0	3.10	59.0	4.90						958									
03	56440	7.60	14	5	393			14	4	7.3	8.5	0.40	11.0	1.70															
04	108711	6.70	11	3	308			8	4	5.4	6.9	0.40	8.8	1.60															
05	25776	6.85	4	3	385		0.02	9	7	7.1	8.0	0.50	11.0	2.00				0.02		184	.005	.002	0.05	.001	.002	.067	.006		
06	44078	6.90	5	3	1305			14	12	20.5	21.2	1.50	38.0	4.20															
07	28869	6.60	6	4	497			8	5	7.3	8.2	0.77	13.1	1.60															
08	14042	6.60	5	3	922			14	10	8.0	8.4	0.48	24.5	1.80						445									
09	12804	6.96	5	3	1145			9	4	8.8	9.4	0.87	23.3	3.00															
10	12062	7.06	3	2	2305			13	9	23.4	24.1	3.30	58.0	4.40															
11	10241	7.92	5	3	1843			34	4	14.6	16.2	3.50	46.0	4.80						920									
12	12808	7.95	8	1	2134			33	10	30.6	31.9	3.70	75.0	3.30															
Avg.	31972	7.35	9	3	1220			21	6	16.9	17.8	1.84	35.2	3.13						627									

STATION .. Q-10 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
							MEASURED IN mg/L																				
01		6.40		1.0	40		0.01	7	3	0.40	1.30	0.30	0.10	0.59				0.18		5	0.002	0.001	0.60	0.002	0.004	0.160	0.004
02		6.30		4.0	54			8	4																		
03		5.50		2.0	47			1	4																		
04		5.30		1.0	37		0.03	1	3	0.80	1.70	0.01	2.80	0.32				0.07		7	0.005	0.001	0.17	0.005	0.002	0.092	0.008
05		6.20		1.0	35	3	0.01	4	3	0.20	2.30	0.01	0.50	0.54				0.02		4	0.004	0.001	0.28	0.002	0.007	0.074	0.006
06		7.10		1.0	43			6	2																		
07		6.50		2.5	41	1	0.01	4	4	0.56	1.56	0.01	0.84	0.44				0.10		5	0.002	0.001	0.38	0.002	0.003	0.038	0.005
08		6.40		1.0	49			2	6																		
09		7.12		1.1	46			7	2																		
10		7.00		1.8	56	1		7	2	1.10	2.00	0.01	0.50	0.63				0.07		5	0.004	0.001	0.25	0.001	0.002	0.077	0.005
11		6.93		0.1	52			8	2																		
12		6.85		0.5	41			8	4																		
Avg.		6.47		1.4	45		0.02	5	3	0.61	1.77	0.07	0.95	0.50				0.09		5	0.003	0.001	0.34	0.002	0.004	0.088	0.006

STATION .. Q-11 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01		6.40		2.0	43		0.01	8	2	0.30	1.40	0.30	0.10	0.67				0.28		4	0.001	0.001	0.95	0.002	0.004	.160	.018
02		6.30		3.0	54			9	4																		
03		6.30		1.0	42			6	2																		
04		6.00		1.0	29		0.03	3	4	0.40	1.50	0.01	0.08					0.06		8	0.013	0.001	0.30	0.025	0.002	.098	.015
05		6.20		1.0	33			N	3																		
06		6.20		1.7	43			8	4																		
07		6.10		1.2	39	1	0.02	6	4	0.48	1.38	0.01	0.74	0.50				0.01		7	0.007	0.001	0.34	0.002	0.003	.036	.016
08		5.80		0.7	46			7	6																		
09		6.70		1.2	44			4	9																		
10		6.73		1.6	42	4	0.04	12	2	0.30	1.10	0.01	0.50	1.00				0.12		3	0.004	0.001	3.40	0.001	0.002	.130	.100
11		6.59		0.6	54			21	4																		
12		6.70		0.3	39			15	8																		
Avg.		6.33		1.3	42		0.03	8	4	0.37	1.35	0.08	0.54	0.72				0.12		6	0.006	0.001	1.25	0.008	0.003	.106	.037

STATION .. Q-12 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L		SOLIDS		URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N"				MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
			TOTAL	DISS.	TOTAL	SUSP.				NH_3	TKN.	NO_2	NO_3														
			MEASURED IN mg/L																								
01	225	6.50		3.0	44	1		7	4	0.60	1.00	0.01	0.50							3	0.001	0.001	0.58	0.002	0.004	0.150	.005
02	271	6.50		4.0	50			8	3																		
03	924	6.40		1.0	40			6	2																		
04	3559	5.90		1.0	31			2	3																		
05	540	6.20		1.0	34			N	3																		
06	2013	6.20		1.4	38			5	2																		
07	822	7.10		2.4	40			15	2																		
08	693	7.15		1.2	40			7	1	0.30	1.50	0.01	0.50					0.06		6	0.002	0.001	0.10	0.001	.002	.018	.041
09	216	7.00		1.4	47			2	7																		
10	11	6 .99		1.9	38			7	2																		
11	393	6.86		0.5	34			6	1																		
12	315	6.90		0.3	35			8	1																		
Avg.	832	6.64		1.6	39			6	3	0.45	1.25	0.01	0.50							5	0.002	0.001	0.34	0.002	.003	.084	.023

STATION .. Q-13 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L		MEASURED IN mg/L																								
			SOLIDS							NITROGEN AS "N"																			
			TOTAL	DISS.	TOTAL	SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NH_3	TKN.	NO_2	NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01		6.70		2.0	53		0.01	18	2	0.10	1.00	0.50	0.10	0.98				0.20		5	0.009	0.001	0.54	0.002	0.004	0.260	0.012
02		6.70		3.0	57			17	2																		
03		6.70		1.0	43	1		15	3																		
04		6.40		2.0	33		0.02	9	2	0.80	1.70	0.01	0.90	0.51				0.08		5	0.003	0.001	0.05	0.001	0.002	0.027	0.005
05		6.70		2.0	42	2	0.01	12	2	N	1.10	0.01	0.40	0.56				0.02		4	0.004	0.004	0.04	0.002	0.002	0.008	0.004
06		7.25		0.9	44	3	0.01	16	2	0.80	1.70	0.02	0.70	0.80				0.27		6	0.003	0.001	0.04	0.002	0.003	0.009	0.007
08		6.40		1.7	57			15	6																		
09		7.76		0.8	52			17	1																		
10		7.57		1.4	41	1	0.04	11	2	0.20	1.90	0.01	0.20	0.80				0.02		2	0.004	0.001	0.02	0.001	0.002	0.009	0.001
11		7.25		0.2	37			13	2																		
12		7.15		0.5	44			19	1																		
Avg.		6.96		1.4	46	2	0.02	15	2	0.38	1.48	0.11	0.46	0.73				0.12		4	0.005	0.002	0.14	0.002	0.003	0.063	0.006

STATION .. Q-15 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.30		5.0	38		0.01	6	2	0.60	1.30	0.10	0.10	0.73				0.07		7	0.006	0.001	0.18	0.009	0.001	0.060	0.020
02		6.40		3.0	30			6	3																		
03		6.10		1.0	33			5	7																		
04		5.40		1.0	29		0.01	1	6	0.60	1.90	0.08	0.60	3.20				0.06		1	0.004	0.001	0.14	0.008	0.005	0.015	0.008
05		6.40		1.0	23	2	0.01	1	3	N	1.10	0.01	0.30	0.52				0.06		5	0.003	0.001	0.07	0.002	0.005	0.011	0.005
06		7.30		1.8	34			4	2																		
07		6.60		0.7	29	1	0.01	4	2	1.00	2.00	0.01	0.20	0.45				0.10		5	.001	.006	0.02	.002	.005	.010	.002
08		5.90		0.5	37			4	4																		
09		6.65		1.2	37			5	2																		
10		6.80		0.7	41	1	0.01	7	4	0.10	0.80	N	0.30	1.00				0.02		5	.003	.001	0.29	.001	.006	.009	.012
11		6.70		0.4	22			4	1																		
12		5.75		1.2	33			2	5																		
Avg.		6.36		1.5	32	1	0.01	4	3	0.46	1.42	0.04	0.30	1.18				0.06		5	.003	.002	0.14	.004	.004	.021	.009

STATION .. 0-16 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.80		2.0	295			4	2																		
02		6.25		1.5	81			2	4																		
03		6.41		2.0	37			4	3																		
04		7.87		3.0	52			111	3																		
05		7.68		3.0	121			19	22																		
06		8.54		1.9	82			17	2																		
07		8.41		1.5	93			31	2																		
08		9.04		2.1	76			21	2																		
09		7.98		2.7	73			7	2																		
10		9.14		2.2	96			45	2																		
11		7.36		1.7	2425	77		7	26																		
12		8.55		3.0	99			20	1																		
Avg.		7.84		2.2	294			24	6																		

STATION .. O-18 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.00		4.5	46	2		2	4																		
02		5.82		1.5	49			2	5																		
03		6.05		1.5	44			3	2																		
04		6.10		1.5	42			2	3																		
05		5.95		1.5	58			2	2																		
06		5.90		1.2	48			2	3																		
07		5.81		2.0	72			1	6																		
08		5.93		2.2	59			3	4																		
09		6.37		1.1	49			2	2																		
10		6.53		1.4	49			2	2																		
11		6.45		0.4	44			3	1																		
12		6.20		1.5	46			2	2																		
Avg.		6.09		1.7	50			2	3																		

STATION .. Q-19 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.50		4.0	24		0.01	4	2	0.20	0.90	0.05	0.20	0.60				0.07		7	.002	.001	0.04	.001	.001	.020	.002
02		6.20		1.0	27			4	2																		
03		6.30		1.0	28			4	3																		
04		6.20		1.0	28	2	0.01	4	2	0.20	1.20	0.01	0.30	0.48				0.04		6	.001	.001	0.10	.005	.002	.013	.003
05		6.30		1.0	27			3	3																		
06		6.35		1.1	33			3	2																		
07		6.24		2.2	28	1	0.01	3	6	0.90	2.47	0.01	0.20	0.45				0.09		7	.004	.002	0.05	.003	.005	.007	.007
08		5.60		1.3	22			4	6																		
09		7.12		0.5	30			4	2																		
10		6.96		1.3	26	2	0.03	4	2	0.50	1.40	0.01	0.20	0.50				0.18		5	.005	.001	0.03	.001	.002	.011	.003
11		6.69		0.1	21			3	1																		
12		6.70		1.2	16			5	1																		
Avg.		6.43		1.3	26	2	0.01	4	3	0.45	1.49	0.02	0.22	.508				0.10		6	.003	.001	0.05	.003	.003	.013	.004

STATION .. P-1 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	MEASURED IN mg/L: U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01	5147	6.50		5.0	36			5	3																		
02	6137	6.20		1.0	50		0.01	4	4																		
03	19927	6.30		1.0	41			4	3											8							
04	96998	5.90		1.0	31			2	4														0.38				
05	15704	5.70		1.0	42	1	0.04	2	4	0.10	1.10	0.01	0.50	.570				0.01		8	.003	.001	0.15	.006	.002	.016	.004
06	46717	6.00		1.8	39			3	4																		
07	4606	6.30		3.4	40			4	4																		
08	4606	6.65		3.0	42		0.01	6	2											6							
09	1689	7.12		0.6	36			3	1																		
10	17024	6.37		0.6	38			4	4																		
11	4434	6.76		0.7	32		0.03	5	2											8							
12	11666	6.70		1.8	47			4	2																		
Avg.	19555	6.38		1.7	40		0.02	4	3											7.5							

STATION .. P-2 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01	10	6.40		35	146			42	8					4.9									1.10				
02	10	6.40		42	170			48	16					4.7									6.40				
03	10	6.30		69	206			43	14					3.8									25.00				
04	10	6.50		19	77			15	8					1.8									2.80				
05	10	7.00	13	11	100	4		19	3	N	1.7	0.01	0.40	2.8				0.03		23	.001	.002	0.35	.001	.002	0.10	.003
06	10	6.80		14	103			15	4					2.7									0.20				
07	10	6.65		1.2	111			22	2					2.5									0.15				
08	10	7.00		17	133			31	16					3.3									19.00				
09	10	7.51		28	114			29	3					3.7									0.27				
10	2	7.31		19	110			29	2					4.1									0.93				
11	10	6.95		17	116			26	3					3.0						31	.005	.006	0.72	.012	.012	.190	.014
12	10	6.40		22	131			33	8					3.0									0.82				
Avg.	9	6.77		25	126			29	7					3.3						27	.003	.004	4.81	.007	.007		.009

STATION .. P-3 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
														MEASURED IN mg/L													
01	73	3.50		19	494			N	45					6.6							.008	.020	10.70	.020	.060	.270	.040
02	55	4.70		7	200			N	26					1.9						88	.001	.006	5.50	.003	.013	.120	.013
03	81	3.95		9	236			N	30					2.1							.002	.005	4.40	.005	.002	1.600	.014
04	356	3.90		12	225			N	30					2.4							.003	.002	3.60	.002	.021	.120	.009
05	446	3.95		19	238	1		N	20	.60	1.6	0.01	0.10	2.4				0.10		135	.003	.008	0.41	.010	.016	.099	.001
06	177	3.75		29	247			N	25					2.8							.001	.008	0.34	.008	.009	.095	.013
07	108	3.30		42	266			N	40					2.8							.004	.009	3.10	.002	.010	.090	.006
08	53	3.25		53	363			N	50					3.7						325	.003	.010	4.40	.001	.022	.130	.011
09	55	3.39		45	308				35					4.9							.003	.011	0.53	.012	.042	.150	.019
10	92	3.80		19	300			N	24					3.1							.004	.001	0.30	.012	.027	.084	.010
11	141	3.78		10	319			N	20					3.3						202	.003	.010	1.50	.008	.023	.130	.015
12	117	3.65		16	324			N	25					3.4							.003	.001	2.30	.009	.024	.110	.019
Avg.	146	3.74		23	293			N	31					3.3						187	.003	.008	3.09	.008	.022	.250	.014

STATION .. P-5 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	MEASURED IN mg/L: SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01		5.90	13		50			8	6														4.60				
02		5.80	11		64			15	7																		
03		5.80	2		69			5	5														2.00				
04		5.60	1		36			3	5														.08				
05		5.90	2	1.0	47	6		4	3	N	1.30	0.01	0.50	0.56				.06		6	.001	.004	0.10	.001	.002	.001	.001
06		5.60	.7		42			4	4														0.22				
07		6.30	3		62			12	8														1.00				
08		5.95	.6		62			15	20														0.83				
09		6.90	1		59			9	3														0.56				
10		6.33	.6		57			7	4														0.25				
11		6.25	.5		46			8	3														0.22				
12		5.85	2		37			4	6														0.16				
Avg.		6.02	3		53			8	6														0.91				

STATION .. P-8 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
			MEASURED IN mg/L																								
01		5.90		5.0	294			1	4	2.80	3.70		8.40	1.80				0.03		163		.007	0.12	..010	.010	.220	.020
02		6.00			285			2	6	2.70	3.50		7.70	2.00				0.13		144		.011	0.13	.004	.014	.240	.026
03		5.80		4.0	167			1	5	2.40	4.00		5.20	1.30						81		.008	0.38	.005	.002	.180	.029
04		5.60		4.0	237			2	6	2.60	3.70		10	1.50				0.06		128		.010	0.08	.001	.007	.200	.012
05		5.65		3.0	319			N	5	3.50	4.60		8.50	1.40				0.02		163		.010	0.04	.007	.019	.260	.018
06		5.60		3.5	361			1	4	3.50	4.50		8.60	2.00				0.04		159		.008	0.11	.009	.005	.240	.022
07		5.90		3.6	302			1	8	3.60	4.50		8.60	1.80				0.01		192		.010	0.06	.006	.020	.220	.010
08		6.15		3.3	331			2	10	3.60	4.30		9.10	1.70				0.06		171		.004	0.08	.002	.002	.190	.024
09		6.18		3.7	342			1	4	3.60	4.50		9.30	2.20				0.02		175		.007	0.02	.002	.008	.230	.012
10		5.93		3.7	326			N	2	2.10	2.70		9.30	2.20				0.07		164		.014	0.13	.001	.007	.250	.016
11		5.79		2.9	341			1	2	2.50	2.70		8.80	2.00				0.18		169		.010	0.01	.002	.012	.210	.015
12		5.60		2.8	315			2	4	3.70	4.30		11	1.70				0.06		168		.013	0.03	.019	.017	.230	.014
Avg.		5.84		3.6	302			1	5	3.05	3.92		8.71	1.80				0.06		156		.009	0.10	.006	.010	.223	.018

STATION .. P-11 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L SOLIDS TOTAL	Ra in pCi/L SOLIDS DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01	50	5.80		7.0	98	1		1	5	0.60	1.40	0.01	0.40														
02	200	5.90		7.0	79			3	5											41	.001	.001	0.81	.010	.004	.170	.022
03	209	6.30		4.0	70			3	3																		
04	892	5.80		7.0	42			1	4																		
05	1149	5.10		13	68			N	5																		
06	456	5.30		9.1	57			N	4																		
07	278	5.55		10	76			1	4																		
08	137	4.40		13	93			N	12																		
09	141	4.35		17	88			N	12																		
10	237	4.31		12	92			N	14																		
11	364	5.29		4.7	75			1	6																		
12		6.00		3.9	53			2	2																		
Avg.	374	5.34		9.0	74			1	6																		

STATION .. P-12 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MEASURED IN mg/L MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01		7.30		2.0	1867			25	4																		
02		7.10		3.0	1868			28	4																		
03		6.90		1.0	2052			16	3																		
04		6.80		2.0	1564			16	6																		
05		6.80		2.0	1491			10	4																		
06		6.50		5.3	1699			9	2																		
07		6.90		6.8	1818			15	8																		
08		7.20		3.9	1901			21	10																		
09		7.50		2.4	1853			19	6																		
10		7.26		2.0	2014			19	4																		
11		7.44		0.7	2089			17	4																		
12		8.10		9.2	2049			22	2	4.70			9.90														
Avg.		7.15		3.4	1855			18	5																		

STATION .. P-14 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L		MEASURED IN mg/L																						
			SOLIDS							NITROGEN AS "N"																	
			TOTAL	DISS.	TOTAL	SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NH_3	TKN.	NO_2	NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01	185	9.64	9.3	4.0	2071	4	0.07	32	N	3.60			5.03	4.50				0.39		1398	.010	.030	0.30	.009	.020	.019	.006
02	600	9.49	4.3	2.3	2061	2	0.08	34	N	3.55			4.90	4.60				0.03		1326	.011	.016	0.07	.024	.024	.017	.005
03	1558	7.48	15.4	2.2	2057	3	0.32	20	4	4.06			6.70	5.60						1297	.013	.016	0.16	.020	.002	.260	.017
04	2036	7.42	7.0	2.0		2		11	3	2.80			10.10														
05	1592	8.89	7.7	2.6	1575	1		16	N	3.28	4.00		5.92	4.90				0.10		917	.009	.014	0.04	.011	.028	.064	.001
06	1424	8.76	10.6	2.0	1706	1	0.10	19	1	3.33			7.28	4.50				0.06		1131	.005	.008	0.04	.001	.040	.066	.012
07	1252	8.76	27.5	6.6	1831	1	0.09	20	N	3.23	5.00	1.32	8.13	3.90				0.02		1079	.015	.015	0.04	.020	.050	.045	.010
08	643	9.09	6.6	2.4	1905	1	0.09	25	1	2.20	3.80	0.82	8.60	3.60				0.06		1173	.008	.019	0.04	.016	.040	.018	.010
09	600	9.25	6.7	2.2	1939	2	0.07	24	N	2.65			10.43	6.40				0.05		1219	.013	.026	0.06	.024	.076	.015	.085
10	864	9.20	8.1	3.4	1803	3	0.08	20	1	2.50			8.68	2.40				0.05		1114	.008	.011	1.00	.007	.016	.020	.044
11	1032	8.90	7.6	3.0	2184	3	0.21	21	0	3.30			9.18	4.10				0.29		1287	.012	.030	0.05	.029	.047	.058	.017
12	1002	9.06	14.0	4.4	2124	2	0.28	16	4	5.32			11.60	3.15				0.05		1332	.009	.024	0.06	.024	.019	.083	.014
Avg.	1066	8.83	10.4	3.1	1932	2	0.14	22	1	3.32	4.27	1.08	8.04	4.33				0.11		1207	.010	.019	0.17	.017	.033	.060	.020

STATION .. S-1 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.00		3.0	29			3	3					0.21	1.7								0.39			.082	
02		5.30		1.0	14				2					0.26	4.2								0.34				
03		5.80		2.0	34			5	4					0.53	1.2								0.34			.140	
04		5.70		1.0	35			2	3					4.80	1.1						.001	.002	0.16	.001	.002	.086	.018
05		6.10		1.0	32	2	.01	2	3	.60	1.70	N	.50	0.49				.05		5	.004	.005	0.12	.005	.070	.046	.015
06		5.75		0.5	38			2	4					0.52	2.7						.001	.002	0.17	.003	.008	.081	.016
07		5.90		3.4	44			3	4					0.59	1.3						.005	.005	0.19	.008	.020	.070	.020
08		6.40		0.5	45			4	2					1.10	0.5						.001	.002	0.12	.001	.004	.040	.014
09		6.50		2.8	36			4	2					0.51	1.3						.001	.001	0.26	.004	.002	.160	.017
10		6.61		2.2	25			5	4					0.58	2.2						.005	.003	0.58	.001	.002	.140	.020
11		6.50		1.2	35	1	.28	6	2	.10	0.80	0.10	.60	0.47				.02		4	.001	.001	0.35	.010	.002	.095	.023
12		6.60		1.9	36			10	4					0.38	0.9						.006	.001	0.41	.001	.004	.095	.029
Avg.		6.10		1.7	34	2	.14	4	3	.35	1.25	0.05	.55	0.87	1.7			.04		5	.003	.002	0.29	.004	.013	.094	.019

STATION .. S-2 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
			MEASURED IN mg/L																								
01		6.80		6.0	269			27	3														1.20			.170	
02		6.40		2.0	122			5	1														0.28			.042	
03		6.80		5.0	292			27	5														0.30			.190	
04		6.90		3.0	239			20	4														0.38			.210	
05		6.40			264			9	3														0.24			.110	
06		7.15		4.9	249			22	4														0.42			.073	
07		7.45		4.1	300			25	4														0.13			.020	
08		8.10		3.2	293			28	2												.003	.004	0.19	.014	.020	.012	.006
09		7.92		5.4	322			31	N														0.05			.012	
10		7.20		3.1	285			24	2														0.26			.071	
11		7.60		3.1	286			34	3														0.08			.048	
12		7.60		4.4	281			35	2														0.07			.057	
Avg.		7.19		4.0	267			24	3														0.30			.085	

STATION .. S-3 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.40		4.0	59			16	4														1.20			.580	
02		6.50		2.0	71			15	4														0.73			.350	
03		6.30		2.0	91			10	3														0.32			.220	
04		6.30		2.0	151			5	3														0.15			.093	
05		6.40		1.0	102			9	2														0.24			.067	
06		6.30		0.9	93			11	6														0.11			.150	
07		6.20		2.9	143			20	6														1.17			.250	
08		6.95		1.0	139			26	2												.001	.002	0.65	.006	.008	.270	.017
09		7.06		0.8	120			25	3														0.38			.100	
10		7.12		1.0	82			11	4														0.45			.077	
11		6.54		0.9	95			10	3														0.39			.120	
12		6.45		1.1	76			16	6														0.74			.270	
Avg.		6.54		1.6	102			15	4														0.54			.212	

STATION .. M-1 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.30		4.0	225	7		14	14	2.10	3.30	0.05	0.70							68	.012	.030	3.90	.018	.004	.700	.026
02		4.85		5.0	220		0.10	1	28											82		.043	6.70	.043	.002	.018	.050
03		5.80		2.0	226			5	10														3.70			.650	
04		6.30		3.0	221			16	5														1.50			.052	
05		6.00		3.0	195	15	0.01	4	4	1.60	2.70	0.20	0.60	4.80				.33		61	.011	.012	1.60	.019	.013	.490	.023
06		4.45		4.8	146				34											76			3.10			.540	
07		5.20		3.1	224			1	10														1.08			.830	
08		5.90		5.1	243		0.03	3	6	0.70	1.70	0.01	0.30					0.11		91	.003	.024	0.81	.016	.002	.740	.012
09		5.69		4.4	250			3	6														0.12			.610	
10		4.85		4.4	225				28											96			3.40			.780	
11		5.86		2.5	214		0.03	7	9														2.00			.640	
12		6.20		1.8	185			8	6											63			1.60			.590	
Avg.		5.62		3.5	215		0.04	5	13	1.47	2.57	0.09	0.53					.22		77	.009	.027	2.46	.024	.005	.553	.028

STATION .. M-3 RIO ALGOM LIMITED

01		6.20		3.0	31			4	9						1.1												
02		6.25		1.0	33			7	3						0.7											.070	
03		6.00		1.0	42			8	3						0.6											.055	
04		6.20		1.0	42			7	2						0.7					8						.062	
05		6.50		1.0	36		0.09	6	2	0.30	1.20		0.40	0.56				0.06		7	.004	.002	0.07	.001	.007	.052	
Avg.		6.23		1.4	37			6	4						0.8					7						.022	.002
																										.052	

STATION .. CL-4 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01	1076	6.80		10.5	350	15		15	3	0.60	1.40	0.03	0.50	2.25						157	0.009	0.004	0.38	.009	.004	.074	.007
02	731	6.70		7.0	327		0.01	16	6		0.70	0.07	0.40	2.20				0.01		155	0.005	0.007	0.18	.005	.008	.170	.006
03	2308	6.60		5.0	267			15	4					2.20							0.001	0.005	0.44	.003	.002	.180	.007
04	19694	7.40		7.0	267			19	4					2.20							0.004	0.002	0.40	.002	.002	.062	.007
05	2498	7.90		7.0	334	1	0.02	20	2	0.80	2.00	0.01	0.50	3.00				0.02		154	0.008	0.011	0.23	.010	.007	.013	.037
06	1532	6.80		6.6	355			19	6					2.60							0.001	0.002	0.43	.018	.007	.026	.011
07	1319	7.90		11.0	337			22	2					2.30							0.001	0.006	0.18	.005	.003	.038	.005
08	121	8.02		7.9	352		0.02	23	2	0.10	0.80	0.01	0.50					0.02		161	0.004	0.008	0.08	.003	.013	.019	.006
09	451	7.73		7.7	362			23	5					2.80													
10	400	7.40		7.7	327			27	2					3.50							0.002	0.002	0.17	.001	.009	.170	.005
11	525	7.33		9.8	408		0.01	19	2	0.30	0.70		0.60	3.00				0.20		189	0.005	0.011	0.08	.008	.006	.230	.006
12	1147	7.20		11.0	378			17	2					2.00							0.002	0.009	0.37	.014	.002	.160	.004
Avg.	2650	7.32		8.2	339		0.02	20	3	0.36	1.12	0.03	0.50	2.55				0.06		163	0.004	0.006	0.27	.007	.006	.104	.009

STATION .. L-1 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		7.00		3.0	52			2	8																		
03		6.00		1.0	50			4	3	0.60	1.90	0.01	0.40								.002	.005	0.13	.001	.009	.027	.007
05		6.40		1.0	46			5	2																		
07		6.10		2.3	75			5	4																		
09		7.39		2.5	48			6	1	0.30	2.00	0.01	0.10														
10		7.58		0.8	51			5	2																		
11		6.36		1.3	53			4	2																		
Avg.		6.69		1.7	54			4	3																		

STATION .. L-2 RIO ALGOM LIMITED

01		6.20		4.0	105			3	4																		
02		5.70		4.0	93			1	6	0.20			0.80							30	.002	.010	0.76	.009	.002	0.550	.043
03		6.00		2.0	123			1	4														0.13			.240	
04		6.20		3.0	87			1	4														0.08			.086	
05		6.20		2.0	102			3	4														0.07			.012	
06		6.95		1.4	87			4	6														0.33			.150	
07		6.20		1.2	96			9	4																		
08		7.30		0.8	70			19	2	0.10			0.50							15	.001	.002	0.22	.001	.002	.052	.003
09		7.46		2.2	77			14	1														0.25			.058	
10		6.86		0.9	81			4	2														0.30			.120	
11		6.14		1.5	122			2	3														0.13			.140	
Avg.		6.47		2.1	97			6	4	0.15			0.65							23	.002	.006	0.25	.005	.002	.156	.023

STATION .. N-12 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MEASURED IN mg/L MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01		6.70		4.0	815			14	6	3.20	4.70	.25	4.10							512	.011	0.13	1.30	.016	.009	.250	.024
02		6.32		3.0	723																						
03		6.65		3.0	565																						
04		7.75		3.0	705																						
05		6.70		3.0	579	7		14	3	2.50	3.80	.20	2.80	21				.04		355	.005	.007	0.91	.008	.007	.110	.110
06		6.70		7.8	847					3.50	5.30	.29	3.20														
07		7.35		4.0	1793					5.30	6.80	.45	5.70														
08		7.90		6.5	1452			17	6	3.00	4.30	.77	5.10					.03		917	.008	.015	0.45	.015	.038	.180	.016
09		7.03		4.1	1248					3.90	5.70	2.7	4.50														
10		7.03		5.6	763																						
11		6.83		1.9	1005																						
12		6.80		1.8	731																						
Avg.		6.98		4.0	936			15	5	3.57	5.10	.78	4.23					.04		595	.008	.012	0.89	.013	.018	.180	.050

STATION .. N-13 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L		MEASURED IN mg/L																								
			SOLIDS							NITROGEN AS "N"																			
			TOTAL	DISS.	TOTAL	SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NH_3	TKN.	NO_2	NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01		6.20		3.0	52																								
02		6.10		1.0	44																								
03		6.20		2.0	43																								
04		6.80		2.0	42																								
05		6.00		2.0	60	2		5	3	.30	1.80	0.01	0.30	1.90				0.02		18	.003	.007	0.82	.012	.002	.070	.004
06		6.15		1.7	70																								
07		6.40		2.2	104																								
08		6.80		2.0	145																								
09		6.76		2.1	51																								
10		6.75		1.7	36																								
11		6.58		0.7	42																								
12		6.15		1.8	37																								
Avg.		6.41		1.9	61																								

STATION .. N-15 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
01		4.25		5	254				34	1.30	2.10	0.01	0.40							122	.008	.047	0.84	.051	.004	1.50	.072
02		4.20		4	265				40																		
03		5.03		3	265				14																		
04		5.10		3	225				20																		
05		4.70		3	244	1			16	0.40	2.40	0.01	0.30	6.20				0.02		98	.005	.031	0.07	.029	.002	.800	.055
06		5.50		2.8	304				4																		
07		6.45		1.8	43				6																		
08		6.70		1.6	355			12	6	0.40	1.00	0.01	0.50					0.09		70	.003	.011	1.90	.007	.009	.370	.005
09		7.05		2.2	316				4																		
10		7.65		2.1	281				2																		
11		4.69		2.8	272				22																		
12		4.20		3.1	288				34																		
Avg.		5.46		2.9	259				17	0.70	1.83	0.01	0.40					0.06		97	.005	.030	0.94	.029	.005	.890	.044

STATION .. N-19 RIO ALGOM LIMITED

1961 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
							MEASURED IN mg/L																				
01		8.60		3.0	1685	2		34	N	8.80	9.70	0.90	6.00							1133	.007	.016	0.32	.016	.018	.160	.006
02		8.66		2.0	1859		0.08	34	N	9.50	11.10	0.06	6.30							1256	.007	.001	0.41	.022	.034	.210	.008
03		8.44		3.0	1769			40	N	9.70	11.00	0.60	6.00							1136	.006	.014	0.33	.013	.024	.100	.004
04		8.75		4.0	1632			32	N	9.10	9.90	0.80	5.60							1113	.007	.015	0.27	.002	.007	.060	.008
05		8.50		3.0	1759	3	0.05	31	N	9.00	9.90	0.70	6.30	57				0.01		1192	.006	.018	0.33	.009	.037	.060	.005
06		7.78		2.9	1740			27	6	8.40	9.10	0.71	6.00	52						1204	.005	.025	0.08	.008	.023	.084	.010
07		8.25		2.3	1878			34	20	7.10	8.30	0.50	6.00							1154	.020	.007	0.06	.004	.030	.060	.001
08		7.74		1.9	1861		0.07	31	3	6.95	7.80	0.50	6.15					0.06		1217	.008	.014	0.11	.011	.043	.068	.022
09		7.68		2.4	1952			23	4	7.00	8.80	0.53	6.30							1195	.010	.024	0.99	.022	.061	.320	.008
10		7.77		2.6	1865			23	5	6.20	6.60	0.70	8.20							1248		.024	0.90	.025	.044	.280	.017
11		8.22		1.1	1891		0.12	28	N	9.10	9.90	0.75	6.30							1211	.011	.023	0.22	.020	.048	.230	.007
12		8.42		0.8	1876			32	N	8.30	9.10	0.90	7.30							1261	.006	.011	0.10	.015	.430	.200	.012
Avg.		8.23		2.4	1814	2	0.08	31	3	8.26	9.27	0.64	6.37					0.04		1193	.008	.016	0.34	.014	.067	.154	.009

STATION .. PR-1 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01	29	6.62		5.5	775			75	18	0.10	1.50	0.08	0.80							426	.026	.030	11.25	.012	.015	.660	.030
02	459	6.05		3.0	830		.06	68	13											482	.011	.016	4.10	.009	.008	.350	.007
03	1729	6.95		2.0	583			51	9												.010	.012	1.10	.001	.012	.220	.008
04	2136	8.00																									
05	1373	7.24		3.0	521	2	.01	14	2	0.10	1.00	0.30	0.30	4.70				.02		336	.005	.011	0.83	.012	.007	.001	.008
06	1174	6.76		2.9	632			24	4												.001	.020	0.16	.004	.013	.021	.008
07	448	6.72		5.0	861			67	6												.020	.020	4.03	.005	.030	.390	.006
08	33	7.20		1.8	710		.07	74	8	0.20	1.50	0.01	0.50					.12			.010	.011	1.40	.005	.023	.120	.030
09	40	7.38		3.4	712			104	12												.020	.017	4.50	.001	.002	.340	.010
10	305	6.98		3.4	439			41	4												.006	.012	0.64	.001	.009	.030	.015
11	833	7.01		2.2	471		.02	27	6											221	.006	.008	0.39	.006	.012	.022	.007
12	980	6.17		2.8	861			7	6												.063	.096	0.35	.016	.017	.250	.019
Avg.	795	6.92		3.2	672		.04	50	8	0.13	1.33	0.13	0.53					.07		366	.016	.023	2.61	.006	.013	.219	.013

STATION .. PR-4 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L		MEASURED IN mg/L																						
					SOLIDS		URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N"				MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
			TOTAL	DISS.	TOTAL	SUSP.				NH_3	TKN.	NO_2	NO_3														
01		7.60		3.0	852	4		52	5	.10	0.60	0.01	0.70							509	.008	.016	0.24	.004	.015	.071	.008
03		7.47	4.3	1.5		2															.120	.250	3.10	.036	.005	.670	.040
04		10.96	3.0	1.5		4															.034	.023	1.90	.005	.025	.041	.003
05		9.77	2.0	1.5	613	2		13	N	3.6	4.40	0.01	0.70	13.1				0.04		382	.007	.018	0.13	.012	.013	.002	.003
06		9.64	2.7	1.7		1															.001	.020	0.29	.011	.024	.100	.012
07		11.40	2.8	1.9		2															.007	.009	0.04	.002	.030	.001	.002
08		11.07	2.2	3.5	952	1		53	N	.90	1.80	0.01	0.20					0.04		513	.014	.012	0.12	.004	.021	.007	.007
11		6.92	30.	1.8		6															.170	.170	3.00	.029	.017	.490	.024
12		7.01	4.0	2.3		10		17	N												.380	.230	3.65	.032	.022	.505	.039
Avg.		9.09	6.4	2.1	806	3		34	1	1.53	2.27	0.01	0.53					0.04		468	.082	.083	1.39	.015	.019	.210	.015

STATION .. SR-1 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01	15636	5.50		7.0	310			1	6	2.8	3.7	.06	9.10	1.80						171	.011	.007	0.36	0.12	.008	.310	.022
03	63082	5.60		3.0	228			1	4	2.2	3.0	.05	3.30	1.50						107	.001	.001	0.05	.006	.010	.190	.013
04	172881	5.65		4.0	258			N	4	3.4	4.7	.08	9.00	1.60						149	.007	.001	0.05	.001	.013	.240	.018
05	67304	5.40		3.0	319			N	4	3.0	3.6	.06	9.10	1.90						147	.005	.001	0.08	.004	.002	.240	.015
06	78258	5.70		4.1	299			N	4	3.1	3.8	.10	8.40	1.70						158							
07	39459	5.80		4.1	271			1	4	4.8	5.8	.15	8.60	1.77						168	.008	.010	0.11	.020	.020	.230	.020
08	39459	6.10		4.0	330			1	3	4.0	4.8	.15	8.90	1.70						174	.004	.008	0.03	.009	.013	.190	.013
09	15309	6.08		2.9	325			1	10	3.5	4.2	.14	9.30	2.60						172	.004	.011	0.05	.018	.026	.220	.051
10	2296	5.70		2.7	321			1	4	2.2	3.8	.11	9.00	1.50						173	.006	.007	0.06	.006	.009	.270	.021
11	9304	5.54		3.0	324			2	6	3.1	3.8	.08	8.70	1.70						164	.005	.009	0.06	.001	.011	.260	.072
12		5.50		3.8	317			1	3	3.8	4.8	.08	11	1.70						188	.001	.011	0.03	.020	.008	.230	.065
Avg.	50319	5.69		3.8	300			1	5	3.3	4.2	.10	8.58	1.77						161	.005	.007	0.09	.010	.012	.238	.031

STATION .. SR-2 RIO ALGOM LIMITED

03		6.00		7.0	125			1	4	1.1	3.70	0.01	0.40	1.40						69			0.06			.160	
05		5.10		5.0	157			N	6	.90	2.10	0.01	2.00	1.50						65			0.03			.180	
06		5.35		4.5	162			N	4	1.9	3.90	0.30	2.90	1.60						79	.003	.009	0.05	.003	.004	.190	.024
08		5.60		4.3	201			N	4	1.2	1.60	0.06	4.00	1.50						93			0.02			.220	
11		6.07		4.6	139			2	4	.5	1.00	0.01	0.50	1.40						69			0.02			.160	
12		6.10		5.2	141			2	4	0.7	1.60	0.01	0.50	1.50						66			0.08			.210	
Avg.		5.70		5.1	154			1	4	1.1	2.32	0.07	1.72	1.48						74			.04			0.187	

STATION .. SR-3 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
			MEASURED IN mg/L																								
08	1161	5.60		6.0	177			N	4	1.50	2.70	0.02	4.60	1.40						89			0.04			.240	
05	161003	5.10		4.0	131			N	4	1.10	2.20	0.02	4.50	1.50						103			0.04			.230	
06	69680	5.30		4.2	157			N	8	1.80	3.50	0.04	4.80	1.50						90	.003	.006	0.05	.003	.004	.220	.025
08	3904	5.65		5.1	187			N	6	1.70	2.30	0.60	4.80	1.50						102			0.02			.240	
11	36688	5.39		3.2	208			1	4	1.10	1.90	0.03	5.00	1.40						87			0.02			.230	
12	45002	5.25		4.8	175			1	4	1.80	2.60	0.02	6.50	1.30						94			0.03			.290	
Avg.	52906	5.38		4.4	173			0	5	1.50	2.53	0.12	5.03	1.43						94			0.03			.242	

STATION .. SR-4 RIO ALGOM LIMITED

01		6.10	6.0		77			3	2	0.3		.60								16	.012	.001	0.45	.010	.004	.230	.015
02		6.20	2.0		84			3	2	0.3		.50								17	.002	.005	0.14	.005	.002	.200	.010
03		6.10	2.0		76			2	2											21	.003	.001	0.25	.001	.002	.170	.067
04		5.70	1.0		36			2	4	0.2		.60								8	.003	.002	0.11	.002	.012	.140	.011
05		6.30	2.0		69			1	2	0.4		.50								20	.003	.003	0.14	.002	.002	.170	.009
06		8.70	1.3		85			8	4	0.1		.50								21	.005	.002	0.35	.014	.014	.170	.026
07		6.50	1.1		71			3	4	0.1		.50								20	.002	.002	0.09	.002	.002	.060	.006
08		6.70	1.6		61			2	2	0.1		.40								36	.015	.002	0.01	.001	.007	.008	.006
09		6.89	1.0		87			3	2	0.1		1.3								19	.003	.002	0.15	.001	.002	.100	.012
10		6.49	1.2		73			4	3	0.2		.20								18	.003	.002	0.07	.001	.002	.100	.013
11		6.61	1.0		79			6	2	0.1		.40								21	.004	.001	0.22	.006	.002	.200	.017
12		6.40	1.6		77			4	2	0.4		.50								21	.003	.002	0.19	.002	.003	.130	.038
Avg.		6.56	1.8		73			3	2	0.2		.55								20	.005	.002	0.16	.004	.005	.140	.021

STATION .. SR-6 RIO ALGOM LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	Ra in pCi/L TOTAL	Ra in pCi/L DISS.	SOLIDS TOTAL	SOLIDS SUSP.	URANIUM as U_3O_8	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TURBIDITY in Jackson Units	POTASSIUM	BARIUM	PO_4	CHLORIDE	SO_4	COPPER	COBALT	IRON	NICKEL	LEAD	MANGANESE	ZINC
					MEASURED IN mg/L																						
01		6.50		9.0	151			9	2	.70	1.50	0.01	0.30							78	.004	.007	0.07	.021	.017	.013	.004
03		6.60		5.0	132			9	2	.60	1.90	0.01	0.40							71	.002	.001	0.04	.001	.002	.077	.005
05		6.40		6.0	207			9	2	.40	1.40	0.01	0.50							77	.001	.013	0.05	0.001	.002	.023	.001
06		4.30		6.6	170			N	8	.60	1.70	0.01	0.40							82	.003	.006	0.05	.008	.004	.130	.006
07		6.70		6.3	196			11	4	.20	1.20	0.01	0.30							82	.005	.020	0.06	.003	.020	.020	.010
08		7.20		8.4	192			12	4	.30	1.00	0.01	0.30							85	.003	.001	0.02	.007	.004	.013	.006
09		7.40		7.4	179			10	1	.10	1.00	0.03	1.30							89	.001	.004	0.11	.005	.013	.007	.130
Avg.		6.44		7.0	175			9	3	.41	1.39	0.01	0.50							81	.003	.007	0.06	.007	.009	.040	.023

DENISON MINES LIMITED

DATA

STATION .. D-1 DENISON MINES LIMITED

1981 MONTH	DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
01	29	900	10.1																											
	30	900	9.8																											
Avg.		1983	9.2					9																						
02	02	2350	9.2																											
	03	1400	9.3					6																						
	04	1400	9.5																											
	06	2000	10.3																											
	09	2000	9.6																											
	10	2350	9.6					3																						
	11	2350	9.8																											
	12	2350	8.4																											
	13	2000	9.7					16																						
	16	1400	9.4																											
	17	1400	8.6					5																						
	18	4000	9.1																											
	19	5600	9.1																											
	20	5050	9.1																											
	23	10 800	9.0																											
	24	6800	8.2		349			2																						
	25	4500	8.5																											
	26	3500	8.7																											
	27	3500	8.5																											
	28	4500	9.0																											
Avg.		3463	9.1					6																						
03	02	2700	5.6					23																						
	03	2350	9.6																											
	04	3100	7.4																											
	05	4000	9.4																											
	06	3100	9.5																											
	07	3100	9.5																											
	08	2700	9.7																											
	09	3100	9.1																											
	10	3100	9.8					5																						
	11	2700	9.5																	123										
	12	2700	9.6																											
	13	2700	9.4																											
	16	1400	9.4																											
	17	2000	9.7					12																						
	18	2700	9.9																	131										
	19	2700	9.6																											
	20	3500	9.3																											

STATION . . D-1 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
03 23	3500	9.2																											
24	3500	9.5		406			3												106										
25	4000	9.2																											
26	3500	9.2																											
27	3500	9.6																											
28	4500	9.3																											
29	5600	9.2																											
30	8100	8.6																											
31	6800	8.6					117																						
Avg.	3467	9.2					32												120										
04 01	8100	8.8																											
02	7450	9.2																											
03	6200	9.0																											
04	14 000	8.9																											
05	6800	9.4																											
06	4500	9.9																											
07	4000	10.4					6																						
08	6200	9.7																											
09	4500	9.4																											
10	3500	9.0																											
13	3500	8.9																											
14	8100	8.7					6																						
15	3500	8.9																											
16	4000	9.1																											
20	2000	8.9																											
21	2000	8.2					11																						
22	2350	9.4																											
23	5050	9.4					474																						
24	3500	9.4					33																						
25	2700																												
27	2700	9.1		363			230																						
28	3100	9.6					52																						
29	3500	10.8																											
30							183																						
Avg.	4837	9.3					124																						

STATION .. D-1 DENISON MINES LIMITED

MONTH 1961 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L: ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS: FECAL	COLI-FORMS: TOTAL
05 01																													
04	2700	9.5					6																						
05	3500	9.6					3																						
06	3500	9.4																											
07	3100	9.3																											
08	2700	9.0																											
11	2350	8.1																											
12	3100	8.2					14																						
13	4000	7.1																											
14	3500	6.6																											
15	2700	8.9																											
19	2000	9.5																											
20	2350	9.4																											
21	2350	9.2																											
22	2350	9.3																											
25	6800	9.4																											
26	5600	9.3		336			<1																						
27	3500	9.6																											
28	2700	9.3																											
29	2350	9.9																											
Avg.	3218	9.0					6																						
06 01	2350	9.3																											
02	2350	9.9																											
03	5600	10.0					7																						
04	5600	9.2																											
05	3500	9.2																											
08	6800	9.5																											
09	3500	9.4																											
10	3500	9.3					2																						
11	2700	9.1																											
12	2700	9.0																											
15	8100	9.2																											
16	9400	9.4					2																						
17	4500	10.1																											
18	2700	9.2																											
19	4000	9.6																											

STATION .. D-1 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
06 22	5050	9.5																											
23	3500	9.0																											
24	3500	9.0					5																						
25	3500	9.2																											
26	3100	9.3																											
29	7450	9.8																											
30	5050	9.9		381			1																						
Avg.	4475	9.4					3																						
07 01	3100	10.9																											
02	2350	11.1																											
06	2000	9.6																											
07	2000	9.7					<1																						
08	1700	9.7																											
09	2000	9.6																											
10	2000	9.4																											
13	2000	9.3																											
14	2000	9.3					1																						
15	2700	9.2																											
16	2350	9.2																											
17	2350	9.3																											
20	2350	9.3																											
21	2700	9.4					<1																						
22	2000	9.2																											
23	2000	9.3																											
24	2000	9.1																											
27	2350	8.3																											
28	2700	9.2																											
29	3100	9.0		540			1																						
30	2350	9.2																											
31	2700	9.2																											
Avg.	2309	9.4					1																						

STATION .. D-1 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
08 04	4000	6.9					2																						
05	3500	9.2																											
06	2700	10.5																											
07	2700	9.2																											
10	2700	6.9																											
11	2700	4.0					23																						
12	3500	4.2																											
13	2700	4.5																											
14	2350	5.2																											
15	2700	4.6																											
16	2700	7.4																											
17	2350	8.8																											
18	2700	9.1					2																						
19	3100	9.5																											
20	3100	9.3																											
21	2000	9.8																											
24	2700	10.0																											
25	2000	9.4																											
26	2350	10.0																											
27	3100	9.4		483			2																						
28	2700	7.0																											
31	2700	5.7					18																						
Avg.	2775	7.8					9																						
09 01	2700	4.0					47																						
05	3100	4.1					7																						
06	2350	8.5																											
07	2350	9.2					9																						
08	4000	11.1					19																						
09	2350	10.8																											
10	3500	10.9																											
11	2350	10.7																											
14	3100	8.9					17																						
15	2700	4.9					14																						
16	2700	5.6					16																						
17	2700	4.4																											
18	2700	6.2																											
21	2000	4.3					28																						
22	2350	4.0					10																						
23	2700	3.9					11																						
24	2700	4.7																											
25	2000	6.4																											
28	2000	4.6																											
29	2700	4.6		637			9																						

STATION .. D-1 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
09 30	2000	5.5																											
Avg.	2655	6.5					17																						
10 01	10800	8.4																											
02	3500	9.8																											
03		11.0																											
04		11.2																											
05	3100	11.4																											
06	10800	11.6					21																						
07	4000	11.2																											
08	3500	10.9					27																						
13	2700	10.4					11																						
14	2700	11.0																											
15	5600	11.6																											
16	3100	11.4					21																						
18	10800	10.8					750																						
19	4500	10.5					230																						
20	4500	10.6					590																						
21	4500	10.4					1430																						
22	4500	9.7					2370																						
23	5600	10.2					33																						
25	0																												
25	0			643																									
27	0																												
28	0																												
29	0																												
30	0																												
31	0																												
Avg.	3654	10.7					548																						

STATION .. D-1 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
11	02	0																												
	03	0																												
	04	30	9.8																											
	05	129	9.8																											
	06	303	9.7																											
	09	303	9.6																											
	10	235	9.4					3																						
	12	205	9.7																											
	13	235	9.5																											
	16	341	9.6																											
	17	515	9.5					<1																						
	18	341	9.7																											
	19	341	9.7																											
	20	303	9.3																											
	23	265	9.7																											
	24	265	9.8		364			<1																						
	25	265	9.6																											
	26	265	9.7																											
	27	303	9.7																											
	30	265	10.0																											
Avg.		245	9.7																											
12	01	303	10.4					2																						
	02	614	10.3																											
	03	383	10.4																											
	04	303	10.3																											
	07	383	10.3																											
	08	341	10.3					<1																						
	09	303	10.3																											
	10	265	10.4																											
	11	265	10.4																											
	14	265	10.6																											
	15	383	10.9					1																						
	16	383	10.5																											
	17	363	10.5																											
	18	383	10.8																											
	21	341	10.8																											
	22	341	10.8		487			3																						
	23	341	10.8																											
	28	383	10.5																											
	29	265	10.7					4																						
	30	383	11.1																											
	31	341	10.8																											
Avg.		350	10.6					2																						

STATION .. D-2 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
01 02		9.1																											
05		9.1																											
06		9.4	2.7	21	0	85	5	2330								43			128										
07		9.5																											
08		9.3																											
09		9.2																											
12		8.1																											
13		8.5	2.1	35	9	28	3	2640								44			124										
14		8.8																											
15		8.9																											
16		9.0																											
19		9.0																											
20		9.2	4.8	36	0	63	4	2820								55			126										
21		9.4																											
22		9.4																											
23		9.3																											
26		9.2																											
27		9.3	3.6	80	0	61	4	2720								63		1	149										
28		9.3																											
29		9.3																											
30		9.5																											
Avg.		9.1	3.3	43	2.3	59	4	2628								51			132										
02 02		9.4																											
03		9.4	2.4	40	0	78	4	2680																					
04		9.5														62			147										
06		9.5																											
09		9.4																											
10		9.6	1.8	59	0	76	10	2400																					
11		9.7														52			148										
12		9.4																											
13		9.2																											
16		9.3																											
17		9.1	0.3	24	0	67	2	2530																					
18		9.1														58			171										
19		9.2																											
20		9.1																											

STATION .. D-2 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
02 23		8.9																											
24		8.9	4.0	50	0	49	6	2640								47		2	109									0	0
25		8.6																											
26		8.9																											
27		8.6																											
Avg.		9.2	2.1	43	0	68	6	2563								55			144										
03 02		8.9																											
03		7.5																											
04		8.2																											
05		8.9																											
06		9.0																											
09		9.1	1.8	29	14	14	10	2360								48			101										
10		9.2	1.4	19	0	55	<1	2510								48			94										
11	)	9.1																											
12		9.1																											
13		9.2																											
16		9.3																											
17		9.3	3.9	21	0	80	5	2650								52			118										
18		9.5																											
19		9.6																											
20		9.4																											
23		9.5																											
24		9.4	3.3	12	0	83	<1	2740								59		2	112										
25		9.3																											
26		9.4																											
27		9.5																											
29		9.2																											
30		9.2																											
31		9.3	5.7	48	0	60	12	2810								51			97										
Avg.		9.1	3.2	26	3	58	5.8	2614								52			104										

STATION .. D-2 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L		MEASURED IN mg/L																						COLI-FORMS	
			DISS.	TOTAL	ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	FECAL	TOTAL
04 01		8.9																										
02		9.2																										
03		9.0																										
04		9.0																										
06		9.4																										
07		9.3	2.4	31	0	60	3	2290																				
08		9.2														36	<1		55									
09		9.2																										
10		9.1																										
13		9.2																										
14		9.2	3.4	23	0	61	<1	2590																				
15		9.2														44			71									
16		8.9																										
20		9.0																										
21		8.9	1.8	19	0	54	<1	2720																				
22		8.9														47			76									
23		9.1																										
24		9.2																										
27		9.0																										
28		8.9	2.3	15	0	59	8	3200	1500	196	74	413	11.2	9.8	<0.2	50	<1	2	82	0.02	0.04	<0.04	<0.01	0.04	0.03	0.12	0.06		
29		8.9																										
30		9.0																										
Avg.		9.1	2.5	22	0	59	3	2700								44			71									
05 01		8.9																										
04		8.7																										
05		8.7	2.1	36	0	57	<1	2890																				
06		8.7														50			85									
07		8.7																										
08		8.8																										
11		8.5	2.8	34	0	64	1	3000	1500	270	80	570	11.2	70	<0.2	45	<1	2.8	85		0.05	<0.04	.007	<0.02	0.01	0.14	0.10		
12		8.6	2.3	24	0	59	1	2920								46			82									
13		8.6																										
14		8.9																										
15		8.6																										
19		8.4	2.5	12	3	55	1	2950																				
20		8.5														47			87									
21		8.4																										
22		8.4																										
25		8.5																										
26		8.7	4.5	12	0	59	1	3080																				
27		8.6														49		6	92								0	0
28		8.5																										
29		9.1																										
Avg.		8.6	2.9	21	<1	58	1	2960								48			87									

STATION .. D-2 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
06 01		8.4																											
02		8.6	1.7	26	0	62	<1	3120																					
03		8.4														41			83										
04		8.8																											
05		8.6																											
08		9.0																											
09		9.0	3.0	37	0	72	3	3130																					
10		8.9														37			88										
11		8.9																											
12		8.8																											
15		8.5																											
16		8.9	4.9	28	0	71	3	3230																					
17		8.8														30			80										
18		8.8																											
19		8.8																											
22		8.9																											
23		8.9																											
24		8.8	2.1	21	0	75	1	3180																					
25		8.9														25		9	70										
26		9.0																											
29		8.8																											
30		9.0	3.9	37	0	68	<1	2890								39			72										
Avg.		8.8	3.1	30	0	70	2	3110								34			79										
07 01		8.9																											
02		9.2																											
06		8.6																											
07		8.9	2.0	39	0	68	<1	3050																					
08		8.9														22			77										
09		8.8																											
10		8.8																											
13		8.7																											
14		8.7	11	25	0	100	1	3430																					
15		8.7														21			79										
16		8.7																											
17		8.7																											
20		8.6																											

STATION .. D-2 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L: ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS: FECAL	COLIFORMS: TOTAL
07 21		8.8	2.7	25	0	76	<1	3100								21			87										
22		8.7																											
23		8.8																											
24		8.8																											
27		8.7																											
28		8.6																											
29		8.6	2.2	23	5	68	2	3430								23		11	91										
30		8.6																											
31		8.5																											
Avg.		8.7	4.5	28	1	78	1	3253								22			84										
08 04		8.2	1.4	29	3	74	<1	3390								26			85										
05		8.2																											
06		8.2																											
07		8.2																											
10		8.3																											
11		8.2																											
12		7.7	2.1	18		20	3	3280								26			87										
13		7.8																											
14		7.6																											
15		7.5																											
16		7.6																											
17		7.8																											
18		7.6	2.1	17	10	60	3	3660								30			90									<40	<40
19		7.6																											
20		7.6	2.2	16	18	59	<1	3820	1520	330	128	604	8.9	171	<0.2	31		12	85		<0.02	<0.05	<0.02	0.12	0.03	0.25	0.10		
21		7.6																											
24		8.3																											
25		8.4																											
26		8.3																											
27		8.9	6.5	42	3	63	<1	3280	1380	260	120	550	8.3	174	<0.2	35	<1	12	92	0.04	<0.02	<0.05	<0.02	0.08	0.03	0.23	0.14		
28		8.1																											
31		8.0																											
Avg.		8.0	3.0	27	5	54	2	3403								29			89										

STATION .. D-2 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
09 01		8.1	2.0	39	10	63	<1	3490								35			101										
05		7.0																											
06		6.9																											
07		7.2																											
08		7.2	3.8	47	12	54	<1	3410								42			100										
09		8.2																											
10		8.5																											
11		8.5																											
14		8.8																											
15		8.4	4.5	33	0	47	2	3770								39			98										
16		8.6																											
17		8.4																											
18		8.4																											
21		7.9																											
22		7.5	1.3	20	15	49	3	3710								38			100										
23		7.5																											
24		7.7																											
25		7.8																											
28		6.6																											
29		6.6	12	37	26	22	5	3540								46		9	103										
30		7.2																											
Avg.		7.8	4.6	35	13	51	2	3504								40			100										
10 01		7.0																											
02		7.1																											
03		7,8																											
04		7.4																											
05		7.6																											
06		7.5	5.6	19	13	25	2	3900								50			95										
07		8.6																											
08		8.9																											
09		8.7																											
13		9.5	4.3	27	0	126	3	3460								44			97										
14		9.4																											
15		9.2																											
16		9.4																											
18		9.4																											
19		9.6																											
20		9.6	9.1	28	0	104	6	3080								35			87										
21		9.6																											
22		9.6					5																						
23		9.6																											
25		9.5																											
26		9.5	3.3	30	0	119	<1	3080								34			88									<40	<40

STATION .. D-2 DENISON MINES LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
10 27		9.5																											
28		9.5																											
29		9.5																											
30		9.6																											
Avg.		8.9	5.6	26	3	94	3	3380								41			92										
11 02		9.7																											
03		9.6	1.8	20	0	340	1	3030								30			93										
04		9.5																											
05		9.5																											
06		9.4																											
09		9.4																											
10		9.3	1.8	18	0	83	3	3070								30			83										
12		9.4																											
13		9.3																											
16		9.2																											
17		9.5	2.7	52	0	86	2	2990								33			90										
18		9.2																											
19		9.1																											
20		9.1																											
23		9.2																											
24		9.2	3.2	26	0	106	2	2970	1260	214	127	460	5.5	117	0.8	34	<1	3	92	0.3	0.02	0.04	<.005	<.05	<.01	0.07	<.02	< 40	<40
25		9.1																											
26		9.2																											
27		9.2																											
30		9.3	5.0	83	0	106	9	2960	1310	214	135	592	4.8	115	0.4	35	<1	2	96		0.02	0.04	<.005	<.03	0.01	0.13	0.04		
Avg.		9.3	2.4	29	0	154	2	3015								32			90										
12 01		9.8	3.2	34	0	117	7	2920								38			95										
02		9.4																											
03		9.4																											
04		9.4																											
07		9.6																											
08		9.5	2.0	61	0	138	6	2890								47			94										
09		9.6																											
10		9.7																											

STATION .. D-2 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
12 11		9.7																											
14		9.8																											
15		9.8	4.2	48	0	175	4	2920								57			96										
16		9.8																											
17		9.8																											
18		9.8																											
21		9.9																											
22		10.0	3.6	34	0	210	<1	2900								65		1	99										
23		10.0																											
28		10.4																											
29		10.6	2.1	32	0	180	10	3040								69			107										
30		10.8																											
31		10.2																											
Avg.		9.9	3.3	42	0	164	6	2934								55			98										

STATION .. D-3 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
01 02		9.8																											
06		9.5	5.7		0	83	1	580																			.96		
07		9.6														<1			2										
08		9.6																											
09		9.6																											
12		8.4																											
13		8.0	3.7		3	86	<1	730																					
14		7.9														<1			2								.62		
15		8.0																											
16		8.2																											
19		9.1																											
20		8.8	4.2		0	82	<1	740																					
21		8.5														<1			1								.56		
22		9.3																											
23		9.2																											
26		9.3																											
27		6.7	5.7	6.3	0	86	<1	760																					
28		8.9														<1			1								0.94		
29		8.9																											
30		8.7																											
Avg.		8.9	4.8		0.75	84	<1	703								<1			1.5								0.77		
02 02		9.4																											
03		9.2	3.4		0	81	1	710								1			2								0.60		
04		9.3																											
06		8.8																											
09		9.5																											
10		9.6	4.0		0	104	4	730								1			2								0.56		
11		10.2																											
12		9.8																											
13		9.9																											
16		9.9																											
17		9.8	8.0		0	108	7	720								1			1								0.80		
18		9.7																											
19		9.9																											
20		9.9																											
23		9.4																											
24		9.0	9.3	9.3	0	32	6	510								1			2								1.12		
25		8.7																											
26		9.2																											
27		10.5																											
28		10.5																											
Avg.		9.6	6.2		0	81	5	668								1			2								0.76		

STATION .. D-3 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
03 02		10.7	11		0	82	<1	650								1			2								0.20		
03		10.7																											
04		10.9																											
05		11.0																											
06		10.6																											
09		10.0																											
10		10.0	6.5		0	64	<1	660								1			2								0.22		
11		9.9																											
12		9.8																											
13		9.9																											
16		9.7																											
17		9.7	12		0	55	<1	620								1			2								0.36		
18		9.7																											
19		9.7																											
20		9.5																											
23		9.7																											
24		9.8	9.7	10.1	0	66	<1	650								1			2								0.14		
25		9.8																											
26		9.8																											
27		9.7																											
29		9.6																											
30		8.7																											
31		9.0	11		0	40	28	360								<1			2								0.76		
Avg.		9.9	9.9		0	61	6	568								1			2								0.34		
04 01	335	9.3																											
02	335	9.7																											
03	335	9.6																											
04	949	8.1																											
05	679	10.3																											
06	335	10.7																											
07	335	10.5	9.2		0	72	2	240								<1			2								0.52		
08	335	9.4																											
09	287	9.9																											
10	240	10.1																											
13	240	10.3																											
14	240	10.0	7.7		0	79	1	340								<1			2								0.10		
15	335	10.4																											

STATION .. D-3 DENISON MINES LIMITED

1981 MONTH	DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L: ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS: FECAL	TOTAL
04	16		10.3																											
	20		9.9																											
	21		9.9	12		0	84	<1	570								<1			2										
	22		9.8																									0.12		
	23		9.7																											
	24		9.7																											
	27	71	9.8																											
	28	71	9.7	8.7	18.1	0	72	1	560	290	140	1.3	30.0	0.97		0.8	<1		<1	2		0.03	<.04	<.01	0.02	0.05	0.12	0.14		
	29	71	9.6																											
	30	104	9.8																											
Avg.		312	9.8	9.3		0	77	1	428								<1			2								0.22		
05	01	104	9.7																											
	04	71	9.2																											
	05	71	9.2	14		0	72	1	620								<1			2								0.14		
	06	71	9.1																											
	07	44	9.1																											
	08	44	8.7																											
	11	24	8.8	16	22.1	0	74		540	300	140	27	82	0.95		<.2	<.1	1		1.6		0.03	<.04	.005	<.02	0.05	0.04	0.35		
	12	24	8.8	14		0	70	20	460								< 1			2								0.60		
	13	24	9.0																											
	14	44	9.0																											
	15	44	9.3																											
	19	24	8.6	15		2	75	<1	600								< 1			2								0.18		
	20	24	8.7																											
	21	44	8.5																											
	22	24	8.3																											
	25	24	8.3																											
	26	44	8.6	18	18.4	0	86	2	684								<1		<1	2								0.24		
	27	44	8.9																											
	28		9.2																											
	29	44	9.6																											
Avg.		44	8.9	15		0.5	76	6	591								<1			2								0.29		

STATION .. D-3 DENISON MINES LIMITED

MONTH 1981	DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L: ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS: FECAL	COLIFORMS: TOTAL
06	01	24	8.1																											
	02	24	8.7	14		0	87	1	612								< 1			2								0.40		
	03	44	8.1																											
	04	104	8.7																											
	05	191	8.9																											
	08	104	8.4																											
	09	191	9.3	10		0	77	< 1	568								< 1			1								0.48		
	10	191	9.2																											
	11	104	9.1																											
	12	104	8.9																											
	15	191	8.5																											
	16	714	9.3	14		0	73	5	590								< 1			1								0.30		
	17	448	9.3																											
	18	191	9.2																											
	19	191	9.2																											
	22	104	8.9																											
	23	144	9.1																											
	24	104	9.1	19		0	83	1	540								< 1			1								0.32		
	25	104	9.3																											
	26	104	9.4																											
	29	191	9.1																											
	30	245	9.5	15	17.4	0	84	3	440								< 1			1								0.68		
Avg.		173	9.0	14		0	81	2	550								< 1			1								0.44		
07	01	191	9.4																											
	02	191	9.4																											
	06	44	7.9																									1.00		
	07	44	8.0	22		3	108	2	484								< 1			5										
	08	44	8.1																											
	09	24	8.0																											
	10	10	7.9																											
	13	10	7.8																											
	14	10	7.8	20		2	74	2	208								< 1			< 1								0.44		
	15	<10	7.9																											

STATION .. D-3 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L: ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS: FECAL	COLIFORMS: TOTAL
07	16	<10	7.9																											
	17	0																												
	20	0																												
	21	<10	7.9	3.4		2	74	2	208								<1			<1								0.44		
	22	<10	8.0																											
	23	<10	8.4																											
	24	<10	8.1																											
	27	0																												
	28	0		8.6	24	5	26	<1	74								<1			<1										
	29	0																										0.50		
	30	0																												
	31	0																												
Avg.		29	8.2	14		3	69	2	255								<1			2								0.86		
08	04	0																												
	05	10	7.7																											
	06	10	7.8																											
	07	10	7.6																											
	10	10	7.5																											
	11	0		10																										
	12	0																										1.50		
	13	0																												
	14	0																												
	17	0																												
	18	0																												
	19	0																												
	20	0																												
	21	0																												
	24	0																												
	25	0																												
	26	0																												
	27	0																												
	28	0																												
	31	10	7.2																											
Avg.		2.5	7.5																											

STATION .. D-3 DENISON MINES LIMITED

1981 MONTH	DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
09	01	10	7.7	28	40.1	5	179	<1	620								<1			3								0.12		
	05	10	7.2																											
	06	10	7.3																											
	07	10	7.3																											
	08	44	7.0	43		6	130	<1	630								<1			2								0.28		
	09	71	7.0																											
	10	104	7.5																											
	11	44	7.7																											
	14	44	7.9																											
	15	44	7.6	31		2	89	<1	800								<1			2								0.02		
	16	24	7.7																											
	17	24	8.0																											
	18	24	8.1																											
	21	10	7.4																											
	22	24	7.8	31		4	88	<1	700								<1			2								<.02		
	23	10	7.7																											
	24	10	7.7																											
	25	10	7.5																											
	28		7.0																											
	29	10	7.3	26	33	1	86	<1	850								<1			3								0.52		
	30	10	7.7																											
Avg.		27	7.5	32		4	114	<1	720								<1			2								0.19		
10	01	144	7.5																											
	02	104	8.8																											
	05	104	7.7																											
	06	104	7.9	15		2	55	2	760								<1			3								0.04		
	07	245	8.8																											
	08	104	8.8																											
	09	71	9.0																											
	13	10	7.8	7.6		2	56	<1	928								<1			4								0.02		
	14	44	8.0																											
	15	44	7.8																											

STATION .. D-3 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
10	16	71	8.0																											
	18	1842	7.9																											
	19	617	9.5																											
	20	617	9.6	12		0	71	<1	874								1			3								0.04		
	21	191	9.3																											
	22	104	9.3																											
	23		9.2																											
	24		8.9																											
	25		9.4																											
	26	245	9.1	7.8	12.3	0	56	<1	806								<1			3								0.02		
	27	191	9.1																											
	28	191	9.4																											
	29	104	9.2																											
	30	104	9.3																											
Avg.		250	8.7	11		1	60	1	842								<1			3								0.03		
11	02	8	9.3																											
	03	5	9.1	9.1		0	270	<1	728								<1			3								<.02		
	04	5	9.0																											
	05	5	9.2																											
	06	5	9.2																											
	09	3	10.2																											
	10	5	10.0	11		0	49	2	996								1			5								<.02		
	12	5	10.3																											
	13	8	10.2																											
	16	8	10.2																											
	17	14	10.1	11		56	25	2	1010								2			6								0.12		
	18	11	10.2																											
	19	8	10.2																											
	20	8	10.1																											
	23	3	10.2																											
	24	3	10.2	11	11	0	95	<1	1160								3			7								0.10		
	25	3	10.0																											
	26	3	9.6																											
	30			15		0	67	9	1130	510	167		168	1.0	191	<0.2	4.1		1	7.6		<.01			<.05	<.01	0.02	<.02		

STATION .. D-3 DENISON MINES LIMITED

MONTH 1981	DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
12	01	8	10.7	9.4		0	70	<1	1160								4			8								<.02		
	02	15	10.5																											
	03	15	10.5																											
	04	15	10.5																											
	07	8	10.5																											
	08	8	10.5	3.2		0	70	<1	1060								4			7								0.02		
	09	8	10.5																											
	09	8	10.5																											
	10	8	10.5																											
	11	8	10.6																											
	14	5	10.6																											
	15	8	10.6	11		0	40	<1	1160								5			7								0.02		
	16	3	10.6																											
	17	3	10.7																											
	18	3	10.6																											
	21	3	10.9																											
	22	3	10.8	8.2	37	0	110	<1	1220								5			4								<.02		
	23	3	10.6																											
	28	3	10.9																											
	29	3	11.0	4.9		0	370	1	1570								8			5								0.02		
	30	3	11.2																											
	31	3	10.6																											
Avg.		6	10.7	7.3		0	132	<1	1234								5			6								0.02		

STATION .. D-4 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
01	02	1519																												
	05	1558																												
	06	1624																												
	07	1624																												
	08	1624																												
	09	1558																												
	12	1651																												
	13	1624																												
	14	1452																												
	15	700																												
	16	700																												
	19	700																												
	20	700																												
	21	700																												
	22	700																												
	23	700																												
	26	766	8.0		2.8	2	5		48								<1			<1										
	27	726																												
	28	766																												
	29	700																												
	30	700																												
Avg.		1085																												
02	02	1255																												
	03	1228																												
	04	1294																												
	06	1360																												
	09	1756																												
	10	1849																												
	11	2919																												
	12	2958																												
	13	3011																												
	16	3473																												
	17	3803																												
	18	3143																												
	19	3381																												
	20	3473																												
	21	3605																												
	23	6114																												
	24	36977	6.9		<.2	2	8		44								<1			<1										
	25	36184																												
	26	34204																												
	27	32487																												
Avg.		9224																												

STATION .. D-4 DENISON MINES LIMITED

1981 MONTH	DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
03	02	48466																												
	03	44108																												
	04	41071																												
	05	38429																												
	06	35656																												
	09	28789																												
	10	38297																												
	11	35524																												
	12	32355																												
	13	29714																												
	16	24299																												
	17	22978																												
	18	21526																												
	19	20337																												
	20	19281																												
	23	16772																												
	24	15847																												
	25	15187	8.5		0.3	3	12	28									<1			<1										
	26	14659																												
	27	14659																												
	30	17960																												
	31	23771																												
Avg.		27258																												
04	01	32335																												
	02	54937																												
	03	59427																												
	06	114364																												
	07	112251																												
	08	111723																												
	09	110930																												
	10	107233																												
	13	93366																												
	14	97460																												
	15	92706																												
	16	88744																												
	20	72897																												
	21	67747																												
	22	46221																												
	23	33543																												
	24	37241																												
	27	31769	7.7		<.2	4	7	100	<5	2	0.3	3.35	0.53				<1			<1	<.02	0.02	<.04	<.01	<.02	0.08	0.02	<.02		
	28	37769																												

STATION .. D-4 DENISON MINES LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
04 29	38562																												
30	38033																												
Avg.	70727																												
05 01	36977																												
04	35524																												
05	36845																												
06	35656																												
07	19809																												
08	13470																												
11	13021																												
12	13734																												
13	13998																												
14	13734																												
15	13338																												
19	13734																												
20	13734																												
21	13470																												
22	4754	7.9																											
25	2403																												
26	3143			<.2	4	12		84								<1			<1										
27	3328																												
28	3566																												
29	3751																												
Avg.	15399																												
06 01	3803																												
02	4173																												
04	21130																												
05	21267																												
08	21922																												
09	17300																												
10	33939																												
11	40939																												
12	36449																												
15	33807																												
16	38562																												
17	37505																												
18	35260																												
19	35524																												
22	32883																												
23	32355																												
24	30110																												
25	31034	8.4		1.7	4	19		36								<1			<1										
26	29581																												

STATION .. D-4 DENISON MINES LIMITED

1981 MONTH	DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L: ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS: FECAL	TOTAL
D6	29	29978																												
	30	32355																												
Avg.		28566																												
D7	01	30770																												
	02	303374																												
	06	26676																												
	07	25620																												
	08	24563																												
	09	23243																												
	10	20865																												
	13	17168																												
	14	15319																												
	15	13734																												
	16	12929																												
	17	11001																												
	20	9614																												
	21	9548																												
	22	9033																												
	23	7871																												
	27	7514	7.8																											
	28	6286																												
	29	6286			0.4	3	17		176								<1			<1										
	30	5705																												
	31	5071																												
Avg.		15200																												
D8	04	4701																												
	05	5547																												
	06	5996																												
	07	6286																												
	10	5547																												
	11	5335																												
	12	5018																												
	13	4649																												
	14	4543																												
	17	5547																												
	18	3909																												
	19	3751																												
	20	3698																												

STATION .. D-4 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
08 21	2866																												
24	3328																												
25	14130																												
26	11357	8.0		0.8	1	17		36								<1			<1										
27	12466																												
28	11357																												
31	11212																												
Avg.	6562																												
09 01	10631																												
04	9323																												
05	9112																												
06	8386																												
07	8016																												
08	4754																												
09	1624																												
10	1651																												
11	1849																												
14	1994																												
15	1585																												
16	2085																												
17	2034																												
18	1585																												
21	1585																												
22	2549																												
23	1360																												
24	1453																												
25	1690																												
26	726	6.7		0.2	1	18		68								<1			<1										
29	528																												
30	1030																												
Avg.	3434																												

STATION ... D-4 DENISON MINES LIMITED

MONTH	DAY	1981	FLOW in IGPM	pH	RADIUM IN pCi/L		MEASURED IN mg/L																			COLI-FORMS	
					DISS.	TOTAL	ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	FECAL	TOTAL
10	01		1360																										
	02		1453																										
	03		2588																										
	06		1360																										
	07		79																										
	08		<26																										
	09		<26																										
	13		106																										
	14		79																										
	15		396																										
	16		264																										
	19		700																										
	20		<26																										
	21		<26																										
	22		396																										
	23		106																										
	26		132																										
	27		211																										
	28		<26																										
	29		79																										
	30		211	7.5		0.4	2	20		44									<1			<1								
	Avg.		460																										
11	02		113																										
	03		30																										
	04		53																										
	05		53																										
	06		110																										
	09		110																										
	10		93																										
	12		30																										
	13		22																										
	16		26																										
	17		30																										
	18		28																										
	19		24																										
	20		18																										

STATION .. D-4 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
11 23	12																												
24	12	8.2		0.2	2	21		36								<1			<1										
25	8																												
26	10																												
27	20																												
Avg.	42																												
12 01	2																												
02	24																												
03	16																												
04	12																												
07	12																												
08	12																												
09	<2																												
10	<2																												
11	<2																												
14	<2																												
15	<2																												
16	<2																												
17	<2																												
18	<2																												
21	<2																												
22	<2	6.5		0.2	2	16		28								<1			<1										
23	<2																												
28	<2																												
29	<2																												
30	<2																												
31	<2																												
Avg.	5																												

STATION .. D-5 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
01 26		8.8	4.8	25	0	36		1550								22		< 1	50										
02 24		8.8	3.8	30	0	25		1050								17		1	39										
03 25		8.8	2.9	9.6	0	29		632								13		< 1	24										
04 27		7.6	1.5	1.9	6	11		260	70	17	11	39.2	1.12			3		< 1	5	0.05	0.02	<.04	<.01	0.02	0.03	0.04	<.02		
05 22		8.1																											
05 26			3.1	3.5	4	18		416								5			31										
06 25		7.6		4.2	3	26		372								3		1	9										
07 29		7.7	3.4	3.5	4	25		640								6		<1	27										
08 26		8.3	3.5		5	32		1470								11		1	42										
08 31				2.9																									
09 28		7.2	2.2	2.9	11	19		1980								22		3	60										
10 26		8.6	7.2	13	0	64		2280								24		4	66										
11 24		9.1	3.8	15	0	64		2460								23		3	69										
12 21		8.9	4.3	27	0	63		2200								37		1	70										

STATION .. D-6 DENISON MINES LIMITED

04 27		7.1		0.9			54	.86	<5	5						<1			<1										

STATION .. D-9 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
04 27	58	7.4		0.2	10	82		220																					
05 22	30	7.5																											
05 26				0.3	3	105		392																					
06 25		7.2		0.6	12	123		240																					
07 29	15	7.5		0.4	3	15		428																					
08 26	10	8.4		0.5	3	156		116																					
09 28	10	7.0		<.2	0	164		490																					
10 26	85	7.5			5	168		200																					
11 25	2	6.4		0.4				230																					

STATION .. D-10 DENISON MINES LIMITED

02 05		5.7		2.7	4	4		220	125							3		<1	9										
03 18		5.7		2.1	7	6		360	110																		0.08		
05 28		6.0		2.8	3	11		305	140	10	12		2.0	2.3	<.2	2			13										
07 30		5.9		2.8	3	19		310	165							3		<1	10	0.03	0.06	<.10	<.10	<.10	0.03	0.30	0.06		
09 28		6.3		2.9	6	13		364	175							4		<1	7										
12 07		6.2		2.9	3	9		342								4		<1	10										
																4		<1	9										

STATION .. D-13 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L		MEASURED IN mg/L											NITROGEN AS "N"													COLI-FORMS	
			DISS.	TOTAL	ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	FECAL	TOTAL
01 26	51	7.4																											
02 06	129	7.7																											
03 25	84	7.3																											
04 27	84	7.1		3.5	32	83		1580																					
05 22	84	6.9																											
06 25	106	6.6																											
07 27	106	7.1																											
08 26	73	6.7		4.7	33	99		2150																					
09 28	106	6.7																											
10 26	129	7.0																											
11 24	12	6.9		5.7	27	92		1980																					
12 22	12	6.7																											

STATION .. DS-1 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L		MEASURED IN mg/L											NITROGEN AS "N"													COLI-FORMS	
			DISS.	TOTAL	ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	FECAL	TOTAL
01 05	424	12.2		<0.2	0	800		2380																					
07	424	12.3																								0.08		
08	424	12.2																										
09	424	12.4																										
12	424	12.4																										
13	424	12.4																										
14	424	12.2																										
15	424	12.2																										
16	424	12.2																										
19	424	12.2																										
20	424	12.2																										
21	424	12.3																										
22	424	12.4																										
23	424	12.5																										
26	424	12.6																										
27	424	12.6																										
28	593	12.6																										
29	593	12.5																										
30	424	12.3																										
Avg.	442	12.4																										
02 02	593	12.3		0.3	0	420		3270																					
05	593	11.8																								0.16		
09	593	12.1																										
10	593	12.2																										
12	593	11.9																										
13	779	11.9																										
17	593	12.2																										
19	593	12.4																										
23	1432	12.0																										
24	3987	11.2		1.6	0	53		1170																			0	0
25	2835	7.3																								16.6		
26	2835	5.5			7	10																						
27	2428	5.0																										
28	2205	7.3																										
Avg.	1475	10.4																										

STATION .. DS-1 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
03	01	1432	12.1																											
	02	1432	12.1																											
	03	1200	11.9																											
	04	1200	12.1																											
	05	982	11.4																											
	06	982	12.6																											
	07	982	11.8																											
	08	779	11.7			0	243																							
	09	779	11.3																											
	10	779	11.8																											
	11	779	11.4																											
	12	779	11.4																											
	13	779	11.4																											
	16	779	11.6																											
	17	779	11.7																											
	18	593	11.7																											
	19	593	11.9																											
	20	593	11.9																											
	23	593	11.6																											
	24	779	11.7																										0	0
	25	982	11.6		<0.2	0	375		1610																					
	26	1200	11.5																									0.60		
	27	1200	11.5																											
	28	2205	12.1																											
	29	2428	11.8																											
	30	3987	10.2																											
	31	2835	5.0																											
Avg.		1201	11.4																											

STATION .. DS-1 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
04 01	3362	11.7																											
02	2835	11.1																											
03	2428	11.5																											
04	7245	10.6																											
05	3987	11.3																											
06	2835	11.4																											
07	2205	11.5																											
08	2428	11.3																											
09	2428	11.4																											
10	2205	11.6																											
13	1200	11.1																											
14	2428	11.9																											
15	1935	11.6																											
16	1677	11.6																											
20	779	11.3																											
21	779	11.3																											
22	779	11.2																											
23	779	11.3																											
24	982	11.3																										0	0
27	779	11.8		0.2	0	110		258(																					
28	779	11.6																									0.04		
29	779	11.7																											
30	779	11.7																											
Avg.	2018	11.4																											
05 01	779	11.6																											
04	593	11.2																											
05	779	11.5																											
06	779	11.2																											
07	593	11.2																											
08	593	11.5																											
11	424	11.3	0.5	0.5	0	104		2740	150	420	6.6	120	1.0	258	<.2	2	3		5.7		0.04	<.04	<.005	<.02	0.07	0.04	0.02		
12	424	11.2																											
13	424	11.1																											

STATION .. DS-1 DENISON MINES LIMITED

1981 MONTH DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
05 14	424	11.2																											
15	150	11.3																											
19	150	11.2																											
20	150	11.3																											
21	150	11.0																											
22	150	11.0																										0	0
25	150	10.9																											
26	150	10.9		0.4	0	53		2950																					
27	150.	10.8																									0.10		
29	102	10.8																										0	0
29	102	10.8																											
Avg.	361	11.1																											
06 01	102	9.6																											
02	102	10.3																											
03	150	9.5																											
04	276	9.4																											
05	276	9.3																											
08	424	9.1																											
09	424	9.0																											
10	424	9.0																											
11	350	9.0																											
12	276	9.1																											
15	1935	7.1																											
16	3987	6.5																											
17	2205	5.9																											
18	1677	7.5																											
19	982	8.6																											
22	779	7.8																											
23	779	7.7																											
24	779	7.5		0.7	9	22		2560																					
25	779	6.1																									0.48		
26	593	6.7																											
27	424	7.4																											
29	779	9.4																											
30	982	9.3																											
Avg.	847	8.3																											

STATION .. DS-1 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
07	01	779	10.1																											
	02	424	10.3																											
	06	276	9.3																											
	07	150	9.2																											
	08	150	9.2																											
	09	150	9.4																											
	10	150	9.3																											
	13	150	9.3																											
	14	53	9.4																											
	15	0	9.4																											
	16	0	9.4																											
	17	0	9.5																											
	20	0	9.5																											
	21	0	9.5																											
	22	0	9.5																											
	23	0	10.9																											
	24	0	10.3																											
	27	0																												
	28	0	10.5																											
	29	0	10.3																											
	30	0	10.3																											
	31	0	9.5																											
Avg.		104	9.7																											
08	04	0	9.7																											
	05	0	9.4																											
	06	0	10.5																											
	07	0	10.4																											
	10	0	10.4																											
	11	0	10.2																											
	12	0	10.1																											
	13	0	9.9																											
	14	0	9.8																											
	15	0																												
	17	0	9.8																											
	18	0	10.0																											
	19	0	9.8																											
	20	0	9.6																											

STATION .. DS-1 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
08	21	0	9.9																											
	24	0	9.5																											
	25	0	10.0																											
	26	0	9.8																											
	27	0	10.6																											
	28	0	10.1																											
	31	150	10.3																											
Avg.		7	10.0																											
09	01	276	10.3																											
	05	102	10.0																											
	06	53	10.0																											
	07	53	9.8																											
	08	276	9.5																											
	09	276	9.6																											
	10	276	9.5																											
	11	150	9.1																											
	14	150	9.1																											
	15	150	8.8																											
	16	150	9.0																											
	17	150	9.1																											
	18	150	9.8																											
	21	53	9.4																											
	22	53	9.9																											
	23	53	9.9																											
	24	53	9.8																										<40	<40
	25	53	10.0																											
	28	150	10.0		0.3	12	78		3310																					
	29	150	10.2																									0.02		
	30	150	10.1																											
Avg.		139	9.7																											

STATION .. DS-1 DENISON MINES LIMITED

MONTH 1981 DAY	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
Nu 01	424	10.4																											
02	424	10.2																											
05	424	10.7																											
06	593	10.6																											
07	593	10.4																											
08	593	10.3																											
09	424	10.3																											
13	276	10.0																											
14	150	9.9																											
15	276	9.7																											
16	276	9.8																											
18	5479	8.5																											
19	2835	4.3																											
20	2205	5.0																											
21	1200	5.6																											
22	1200	5.7																											
23	1200	6.9																											
24	1200	7.9																											
26	1200	8.3		3.9	0	39		2970																					
27	1200	8.1																											
28	1200	7.9																									0.32	<40	<40
29	982	7.9																											
30	779	8.2																											
Avg.	1093	8.5																											
Tu 02	45	10.3																											
03	45	9.8																											
04	45	10.1																											
05	45	10.0																											
06	59	10.1																											
09	45	9.2																											
10	39	8.9																											
12	32	9.3																											
13	32	9.4																											
16	32	9.3																											
17	59	9.5																											

STATION .. DS-1 DENISON MINES LIMITED

MONTH	DAY	1981 FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
11	18	45	10.5																											
	19	59	10.5																											
	20	59	10.5																											
	23	32	10.6																											
	24	27	10.6		<.2	0	75		2680																					
	25	21	10.5																									0.06	<40	<40
	26	27	10.5																											
	27	32	10.7																											
	30	32	10.5																											
Avg.		41	10.0																											
12	01	32	10.5																											
	02	59	10.5																											
	03	59	10.7																											
	04	59	10.7																											
	07	32	10.8																											
	08	59	11.0																											
	09	45	11.0																											
	10	32	11.1																											
	11	32	11.1																											
	14	32	11.2																											
	15	32	11.2																											
	16	45	11.2																											
	17	45	11.2																											
	18	45	11.2																										0	0
	21	45	11.4		<.2	0	350		2320																					
	22	32	11.3																											
	23	32	11.3																									0.14		
	28	32	11.5																											
	29	32	11.6																											
	30	32	11.7																											
	31	32	11.8																											
Avg.		40	11.1																											

STATION .. DS-4 DENISON MINES LIMITED

MONTH	DAY	1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORMS FECAL	COLIFORMS TOTAL
01	19			12.3																											
	26			12.4		1.2	0	720	3	3000																					
																		5			1										
02	05			11.9		1.0	0	460	11	3240																			2.80		
	26			4.0			67	0										6			8										
	27			4.1			76	0										1.6			2.0								1.30		
	28			4.3			68	0										1.6			2.0										
Avg.				6.1			53	115										1.9			2.2								9.60		
																		2.9			3.6								9.40		
03	01			6.3																									6.77		
	02			10.3			0	41																							
	03			10.6														3			3										
	04			10.7			0	61																					0.72		
	06			11.7			0	226										3			3										
	10						0	640										3			4										
	12			12.0														3			4										
	25			12.1		1.5	0	370	7	1960																					
	31			6.5														5			6										
Avg.				10.1			0	268										3			5								2.00		
																		3			4										
04	01			10.6																									1.36		
	02			11.1																											
	27			11.4		1.7	0	65	2	2120	800	513	3.5	392	0.38	102	<0.2	2		< 1	4	<.02	0.03		<.01	<.02	0.01	0.02	0.08		
Avg.				11.0																											
05	11			10.1	2.3	2.3	0	52		2290	1000	600	5.0	105	0.48	196	<0.2	1.1	< 1		4.2		0.04	<.04	<.005	<.02	0.06	0.02	0.20		
	12			11.3																											
	22			10.3																											
	26			10.6		2.8	0	32		2580																					
Avg.				10.7														1			5								0.38		

STATION .. DS-4 DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as CaCO3	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLI-FORMS FECAL	COLI-FORMS TOTAL
06 16		7.6																											
17		7.5																											
18		7.4																											
23		7.6																											
24				3.2	5	79	3	2610								1			5										
25		8.0																											
26		7.8																											
Avg.		7.7																											
07 27		8.5		5.6	3	36	2	3290								2			7								1.52		
09 15		7.9		6.7	2	36	< 1	3390	1200	925	8.4	596	2.2	116	<0.2	2		<1	6	0.15	<.01	<.05	<0.2	<.05	0.03	0.14	0.40		
16		7.8																											
10 19		7.0																											
20		7.5																											
21		6.6																											
22		6.5																											
23		7.7																											
24		7.8																											
26		8.5		4.6	0	39	2	2900								2			4								0.22		
Avg.		7.4																											
11 24		9.6		2.1	0	43	<1	2700	1200	542	7.0	460	4.0	176	<0.2	2		<1	4	0.2	0.02	<.005	<.005	<.05	<.01	0.06	0.26		
30			2.1	2.1	0	41	1	2760	1170	770	7.5	546	2.2	218	<0.2	1.8		<1	4.8		0.02	0.01	.007	0.07	0.01	0.06	0.52		
12 21		11.0		1.8	0	140	16	2380								3			6							0.80			

STATION .. PEC-I DENISON MINES LIMITED

MONTH DAY 1981	FLOW in IGPM	pH	RADIUM IN pCi/L DISS.	RADIUM IN pCi/L TOTAL	MEASURED IN mg/L ACIDITY	ALKALINITY as $CaCO_3$	T.S.S.	T.D.S.	SULPHATE	CHLORIDE	POTASSIUM	CALCIUM	MAGNESIUM	SODIUM	BARIUM	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	TOTAL "P"	COPPER	NICKEL	LEAD	COBALT	ZINC	MANGANESE	IRON	COLIFORME FECAL	COLIFORME TOTAL
02 06		5.8		5.2	5	2		48	30							<1			<1								0.18		
03 19		5.5		4.9	5	6		80	35							<1			<1								0.08		
07 29		6.1		4.2	19	10		114	80							1			1								0.10		
09 24		5.8		3.5	2	11		224	65							<1			1								<.02		
11 04		5.7		4.6	3	12		168	65							<1			<1								<.02		

STATION .. PEC-O DENISON MINES LIMITED

02 06		5.9		2.6	2	2		16	15							< 1			< 1										
03 19		5.7		4.7	7	9		130	35							< 1			1								0.14		
07 29		5.7		3.4	5	11		186	95							1			5								0.24		
09 24		5.4		3.0	3	12		254	100							2			6								0.06		
11 04		5.2		3.5	3	12		204	80							1			5								<.02		
																											0.22		

MINISTRY OF ENVIRONMENT

TECHNICAL SUPPORT

DATA

STATION.. BUCKLES CREEK BC-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L																								
			ALKALINITY as $CaCO_3$	HARDNESS as $CaCO_3$	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																			
06 10	5.88	760	10	331	.002	1.28	.002	3.70	97	21.5	13	6.7	24.5	350						2.60						
06 26	6.25	355	11	128	.390	.96	.014	.960	38	8.0	6.6	3.5	12.0	113						1.80						
07 09	6.32	800	33	338	.560	1.42	.001	3.75	100	21.5	11	8.5	18.5	364						1.16						
07 22	6.47	1200	14	533	1.84	2.12	.030	4.65	155	35.5	17	13.0	27.0	648						.30						
08 06	5.37	1120	4	511	1.32	1.81	.080	3.00	137	41.0	16	12.8	29.5	560						.53						
08 20	6.53	1220	7	541	.850	1.35	.037	4.75	159	34.9	19	11.8	27.5	541						.25						
09 10	6.36	1080	11	496	.830	1.18	.011	1.70	148	30.5	19	10.5	31.5	496						.27						
09 24					1.51	2.25	.038	4.05																		
10 14					.570	1.42	.058	2.10																		
10 28					.550	1.04	.002	.86																		
11 10					.670	1.02	.007	1.25																		
12 30						.37																				

STATION .. BUCKLES CREEK BC-1

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g									
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 10			2.7	3.4	18.0				.068	.001																
06 26			3.1	3.8	47.1				.075	.001																
07 09			4.0	3.4	14.8				.078	.001																
07 22			3.6	3.4	11.6				.032	.001																
08 06			2.6	1.0	16.6																					
08 20			3.2	1.0	6.3				.055	.001																
09 10			2.8	3.2	7.2				.018	.001																
09 24									.102	.003																
10 14									.058	.001																
10 28																										
11 10									.075	.001																
12 30																										

STATION.. BUCKLES CREEK BC-2

MEASURED IN mg/L

1981 MONTH	DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
06	10	6.97	2000	20	1011	4.15	5.4	5.30	10.2	311	57.0	14	22.2	22.5	803						.18						
06	26	5.10	1950	5	1016	8.70	9.37	.470	6.50	313	57.0	13	22.0	22.5	861						.41						
07	09	8.30	1950	25	995	7.70	8.32	.480	6.75	306	56.0	12	22.6	22.5	1146						.11						
07	22	5.37	2000	6	1048		3.02		9.20	329	55.0	15	24.4	22.5	1180						.09						
08	06	8.31	2100	33	1042	6.30	7.11	.330	6.60	325	56.0	16	23.2	23.5	1218						.18						
08	20	8.23	2100	33	1084	.340	6.30			341	56.7	16	23.9	23.0	1206						.14						
09	10	8.41	2100	33	1141	7.00	7.41	.330	6.70	361	58.5	15	24.7	23.0	1265						.39						
09	24					7.30	7.79	.345	6.50																		
10	14					8.90	9.10	.430	7.50																		
10	28					.875	.875	.39	6.3																		
11	10					8.80	9.20	.675	7.25																		
12	30						5.20																				

STATION .. BUCKLES CREEK BC-2

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g										
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 10			1.4	4.6	8.5				.010	.001																	
06 26			1.6	3.0	2.6				.028	.001																	
07 09			1.3	6.4	16.6				.002	.001																	
07 22			1.8	3.4	5.3				.050	.001																	
08 06			1.1	6.6	6.3																						
08 20			1.1	6.4	3.6				.035	.001																	
09 10			1.3	6.6	7.2				.004	.002																	
09 24									.030	.001																	
10 14									.032	.001																	
10 28																											
11 10									.012	.001																	
12 30																											

STATION.. BUCKLES CREEK BC-3

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
06 10	5.93	580	16	295	1.44	1.80	.001	.040	66	23.0	8.7	5.05	16.5	248						14.0						
06 26	6.41	160	11	53	.260	.88	.003	.025	13.4	4.8	2.6	1.60	3.8	50.5						3.0						
07 09	6.32	600	4	261	1.61	2.02	.002	.050	64.0	24.5	11	5.30	22.0	242						13.8						
07 22	6.31	780	34	318	2.03	2.12	.004	.111	77.0	30.5	14	6.80	29.0	310						14.6						
08 06	3.96	1200	0	561	3.55	4.12	.006	.050	130	57.5	15	12.3	30.0	608						23.0						
08 20	5.60	1180	12	558	1.43	1.72	.004	.005	137	52.7	21	11.1	38.0	504						22.0						
09 10	5.45	900	6	427	2.60	2.90	.004	7.50	104	40.9	13	9.3	27.0	381						17.3						
09 24					3.80	4.00	.014	.075																		
10 14					1.61	2.00	.055	.060																		
10 28					.240	.66	.003	.09																		
11 10					.290	.60	.001	.050																		

STATION .. BUCKLES CREEK BC-3

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g										
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 10			3.4	7.6	47.6				.025	.001																	
06 26			3.9	3.8	79.5				.020	.004																	
07 09			3.1	9.8					.010	.001																	
07 22			2.8	13.4					.040	.001																	
08 06			2.3	3.8																							
08 20			1.6	8.6	1.7				.020	.001																	
09 10			1.9	3.8	1.8				.001	.001																	
09 24									.080	.004																	
10 14									.070	.001																	
10 28																											
11 10									.015	.001																	

STATION.. BUCKLES CREEK BC-4

MEASURED IN mg/L

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 08	6.72	470	16	197	1.37	1.55	.047	.85	60	11.5		3.7	6.85	198											.166	
06 11	4.96	1460	4	710	1.72	5.67	2.50	8.50	216	41.5	15	17.2	25.0	760						.48						
06 26	5.04	1180	3	562	1.68	4.88	.051	3.55	174	31.0	11	12.0	19.0	440						1.26						
07 09	5.67	1600	10	780	2.02	5.72	2.55	8.70	239	44.5	13	17.8	22.5	873						.41						
07 22	6.43	1750	14	876	1.40	4.02	.003	9.35	271	48.5	16	21.2	25.5	1005						1.15						
08 06	5.07	1550	4	682	2.40	2.98	.110	3.15	207	40.0	19	15.2	32.5	788						.62						
08 20	6.39	1650	6	825		3.15		4.10	255	45.7	19	18.7	27.0	782						.59						
09 10	6.75	1700	18	907	4.15	4.70	.170	5.50	284	47.8	17	18.8	27.0	805						.32						
09 24					5.60	5.81	.150	5.25																		
10 14					4.00	5.80	1.15	5.10																		
10 28					5.70	5.70	.25	4.2																		
11 10					4.30	5.60	.015	4.35																		

STATION .. BUCKLES CREEK BC-4

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g										
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 08										.002																	
06 11			2.7	2.8	13.9				.037	.005																	
06 26			3.4	2.4	31.9				.045	.001																	
07 09			2.5	3.4	20.7				.027	.001																	
07 22			2.3	4.4	7.6				.065	.001																	
08 06			2.4	3.8	16.1																						
08 20			2.2	2.4	6.3				.018	.001																	
09 10			2.0	2.2	5.8				.045	.001																	
09 24									.045	.001																	
10 14									.070	.001																	
10 28																											
11 10									.035	.001																	

STATION.. BUCKLES CREEK BC-5

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L																										
			ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																			
06 26	6.41	620	6	245	.352	.72	.028	2.00	75.0	14.0	10	6.00	19.5	228						.06							
07 09	7.05	640	9	266	.010	.75	.011	2.05	82.0	15.0	12	7.20	20.0	272						.04							
07 22	6.99	660	11	236	.380	.68	.015	1.85	69.0	15.5	11	7.00	19.5	283						.11							
08 06	6.78	680	10	249	.342	.65	.014	2.10	74.0	15.5	12	6.70	20.0	275						.05							
08 20	7.04	680	11	284	.220	.43	.008	1.35	87.6	15.8	12	6.80	19.5	304						.12							
09 10	6.74	650	10	295	.240	.56	.009	1.85	90.0	17.0	12	6.40	19.5	236						.05							
09 24					.238	.44	.013	1.65																			
10 14					.260	.45	.012	1.90																			
10 28					.305	.64	.014	1.83																			
11 10					.318	.58	.009	1.85																			

STATION .. BUCKLES CREEK BC-5

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L "A"	CHLOR-OPHYLL in ugm/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
06 26			3.3	1.6	10.7				.009	.001																	
07 09			2.8	2.0	9.9				.026	.001																	
07 22			2.9	2.0	9.8				.012	.001																	
08 06			2.7	2.2	4.5																						
08 20			2.4	2.0	2.2				.010	.001																	
09 10			2.5	2.0	4.5				.005	.001																	
09 24									.013	.001																	
10 14									.017	.001																	
10 28									.009	.001																	
11 10																											

STATION.. BUCKLES CREEK BC-6

MEASURED IN mg/L

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																		
04 08	6.52	430	12	166	.46	.70	.049	1.30	51.0	9.5		4.15	14.0	167											.164	
06 26	6.48	380	6	223	.244	.47	.021	1.55	68.0	13.0	10	5.90	18.0	208						.06						
07 09	6.99	600	170	215	.010	.53	.015	1.85	64.0	13.5	11	5.90	18.5	244						.04						
07 22	6.99	600	8	219	.216	.43	.013	1.85	64.0	14.5	11	6.30	18.5	252						.02						
08 06	6.75	600	10	210	.120	.25	.005	.39	62.0	13.5	11	6.00	18.5	238						.09						
08 20	6.97	600	9	244	.110	.34	.010	1.65	74.8	13.8	11	5.90	17.5	258						.04						
09 10	6.86	580	10	252	.126	.41	.010	1.55	76.2	15.0	11	5.70	17.5	256						.02						
09 24					.178	.43	.012	1.15																		
10 14					.132	.32	.008	1.50																		
10 28					.190	.60	.008	1.53																		
11 10						.45	.001	1.60																		
12 30					.326	.58	.011	1.60																		

STATION .. BUCKLES CREEK BC-6

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
04 08										.001																	
06 26			3.0	1.4	2.6				.004	.001																	
07 09			2.7	1.8	12.6				.017	.001																	
07 22			2.7	1.6	4.4				.007	.001																	
08 06			2.9	1.8	9.9																						
08 20			2.6	1.6	2.2				.006	.001																	
09 10			2.6	1.8	4.5				.005	.001																	
09 24									.016	.001																	
10 14									.020	.001																	
10 28																											
11 10									.008	.001																	
12 30																											

STATION.. BUCKLES CREEK BC-7

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																		
			MEASURED IN mg/L																							
09 24					1.02	.48	.013	.830																		
10 14	6.88	520	13	209	.206	43	.006	.815	64.0	12.0	9.9	5.35	16.0	214						.05						
12 30					2.70	3.45	.027	1.10																		

STATION .. BUCKLES CREEK BC-7

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
09 24									.035	.001																	
10 14			2.9	3.2	9.9				.021	.001																	
12 30									.525	.460																	

STATION.. McCARTHY LAKE McL-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L																								
			ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																			
05 13	6.73	160	8.0	47	.284	.53	.003	1.00	15.2	2.15	4.7	1.90	7.6	46.0	.002	.003	.004	.006	.0002	.07	.054		.002			
05 27					.342	.68	.006	1.60																		
06 11	6.58	185	5.0	54	.002	1.13	.500	2.2	18.2	2.15	4.8	2.8	6.7	54.0						.04						
06 23					.380	.68	.007	1.65																		
07 07	6.71	195	9	62	.336	.75	.430	1.80	20.4	2.7	5.2	2.8	7.7	53.0						.05						
07 21					.420	.68	.010	1.80																		
08 06	6.87	220	8	65	.450	.77	.034	1.950	22.0	2.4	4.8	3.55	7.3	69.0						.05						
08 19					.222	.91	.011	.410																		
09 09	7.42	225	11	74	.470	.68	.039	2.450	25.8	2.4	4.6	3.80	7.0	49.0						.07						
09 22					.540	.90	.022	2.200							.002	.004	.008	.008	.0001		.063		.002			
10 08	6.89	240	7	77	.450	.64	.010	2.250	27.0	2.35	4.0	4.50	6.45	84.0						.11						

STATION .. McCARTHY LAKE McL-1

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L "A"	CHLOR-OPHYLL in ugm/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
05 13			3.3	2.0	16.1	7.4	8.6	.6	.013	.003																	
05 27						12.0	14.0	.8	.0151																		
06 11			5.7	2.8	16.2	4.7	6.3	1.2	.0155																		
06 23						2.9	5.4	2.6	.0152																		
07 07			2.5	1.8	26.5	1.8	2.7	1.4	.0119																		
07 21						2.7	3.6	.9	.0160																		
08 06			2.3	1.6	12.1	2.7	4.0	.9	.0170																		
08 19						1.6	2.9	1.1	.0160																		
09 09			2.1	1.4	7.2	1.8	2.6	.5	.0134																		
09 22						2.1	2.1	.5	.0100																		
10 08			1.7	0.2	3.1	.7	1.0	.4	.0061							1.2	4.5	13	40	30	160	140	0.68	42			24000

STATION.. McCARTHY LAKE McL-1B

MONTH 1981 DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																					
05 27					.50	.82	.008	1.80																		
06 11	6.21	185	5.0	53	.004	1.09	.520	2.25	18.0	2.05	4.5	2.9	6.6	55.0						.05						
06 23					.500	.78	.010	1.35																		
07 07	6.39	180	10	59	.202	.97	.600	2.05	20.0	2.15	4.5	2.75	6.85	52.0						.07						
08 06	6.31	190	10	59	.292	.62	.007	.270	20.2	2.20	4.3	3.10	6.50	55.0						.90						
09 09	6.71	195	16	63	.510	.74	.006	.700	21.8	2.10	4.4	3.05	6.60	46.0						.39						
10 08	6.77	240	7	76	.570	.85	.015	3.350	27.0	2.15	4.0	4.55	6.40	81.0						.10						

STATION : McCARTHY LAKE Mci-in

MONTH 1981 DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.012	.001																	
06 11			5.9	4.4	12.2				.0250																		
06 23									.0170																		
07 07			2.7	3.2	28.8				.0230																		
08 06			4.1	6.2	32.8				.0200																		
09 09			2.4	3.8	18.4				.0158																		
10 08			1.6	1.6	4.5				.0102																		

STATION.. McCARTHY LAKE McL-2

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L																								
			ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																			
05 13	6.61	180	5.0	57	.45	.83	.009	2.35	20.0	1.60	2.9	3.0	4.35	59.0	.003	.003	.003	.01	.0002	.06	.100		.002			
05 27					.46	.73	.007	2.45																		
06 11	6.64	190	5.0	64	.52	.73	.011	2.70	23.0	1.70	3.2	3.35	4.55	59.0						.03						
06 23					.53	.86	.014	2.75																		
07 07	6.67	200	5.0	62	.54	.78	.013	3.05	22.0	1.80	3.4	3.45	5.05	61.0						.04						
07 21																										
08 06	6.53	210	5.0	63	.30	1.76	.036	1.65	22.0	1.85	3.5	3.85	5.05	69.0						.03						
08 19					.48	.74	.016	3.05																		
09 09	6.71	210	5.0	68	.21	.32	.002	.80	24.4	1.80	3.4	3.80	5.00	48.0						.03						
09 22					.40	.65	.013	3.10							.002	.004	.007	.009	.0002		.068		.001			
10 08	6.60	220	4.0	67	.44	.65	.010	2.95	24.0	1.75	3.3	3.95	5.20	71.0						.03						

STATION .. McCARTHY LAKE McL-2

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L "A"	CHLOR-OPHYLL in ugm/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
05 13			3.1	1.0	8.5	1.1	1.4	.3	.009	.01																	
05 27						.5	.8	.4	.0280																		
06 11			3.6	1.6	12.2	.2	.6	.3	.0122																		
06 23						.5	.5		.0121																		
07 07			2.3	1.0	23.4	.7	.8	.7	.0086																		
07 21						.6	.8	.1	.0154																		
08 06			2.8	1.2	8.1	.9	1.0	.3	.0080																		
08 19						.7	.9	.4	.0250																		
09 09			1.8	.6	4.5	1.0	1.0	.1	.0930																		
09 22						1.1	1.2	1.1	.0109																		
10 08			2.0	.8	3.1	.5	.8	.3	.0062							1.6	4.8	16	47	33	170	120	1.2	49			28000

STATION.. McCARTHY LAKE McL-2B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																					
05 27					.334	.66	.005	1.55																		
06 11	6.41	175	6.0	53	.41	.65	.008	2.45	18.6	1.6	3.1	3.05	4.15	53.0						.05						
06 23					.376	.59	.010	2.05																		
07 07	6.47	180	5.0	60	.420	.67	.015	2.65	21.2	1.65	3.1	3.05	4.50	50.0						.03						
08 06	6.02	180	4.0	57	.274	.55	.010	2.45	19.8	1.70	3.0	3.05	4.20	55.0						.04						
09 09	6.17	190	4.0	63	.242	.40	.003	1.80	22.6	1.65	3.2	3.30	4.50	46.0						.03						
10 08	5.56	180	13	58	.126	.32	.001	2.60	20.8	1.55	2.7	2.95	4.30	57.0						.04						

STATION .. McCARTHY LAKE McL-2B

1981 MONTH DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.008	.001																	
06 11			3.0	1.0	13.5				.0090																		
06 23									.0160																		
07 07			2.5	1.4	23.4				.0150																		
08 06			3.2	2.2	9.9				.0086																		
09 09			2.3	1.4	4.5				.0086																		
10 08			2.7	.8	7.2				.0132																		

STATION.. McCARTHY LAKE MCL-3

MEASURED IN mg/L

1981 MONTH	DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
						NH_3	TKN.	NO_2	NO_3																		
05	13	6.58	210	6	72	.65	1.03	.01	3.00	26.0	1.70	3.3	3.7	5.0	62.0	.002	.004	.003	.011	.0002	.04	.130		.002			
05	27					.52	.78	.008	2.30																		
06	11	6.64	215	6	65	.64	.86	.01	3.15	23.0	1.75	3.6	3.8	5.05	66.0						.03						
06	23					.62	.86	.010	2.90																		
07	07	6.70	210	4	70	.610	.86	.011	3.35	25.0	1.80	3.5	3.85	5.40	64.0						.03						
07	21																										
08	06	6.55	220	4	65	.610	.86	.013	3.30	23.0	1.80	3.6	4.10	5.40	75.0						.02						
08	19					.400	.76	.011	1.65																		
09	09	6.92	230	4	75	.510	.76	.011	3.25	27.2	1.85	3.7	4.20	5.45	48.5						.02						
09	22					.600	1.02	.014	3.05							.002	.005	.007	.009	.0001		.045		.001			
10	08	6.62	230	5	70	.250	.44	.002	.85	25.0	1.85	3.5	4.20	5.40	73.0						.03						

STATION .. McCARTHY LAKE McL-3

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOROPHYLL in ugm/L "A"	CHLOROPHYLL in ugm/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
05 13			2.4	1.0	3.6	.9	1.1	.3	.007																		
05 27						.5	.6	.4	.0047																		
06 11			2.4	1.0	8.1	.5	.8	.3	.0083																		
06 23						.6	.7	.7	.0071																		
07 07			2.0	.8	4.9	.6	.7	.7	.0094																		
07 21						.6	.7	.7	.0074																		
08 06			2.6	1.2	4.5	.6	.8	.2	.0073																		
08 19						.6	.7	.4	.0280																		
09 09			1.8	.6	4.5	.8	1.2	.2	.0118																		
09 22						1.1	1.1	.2	.0084																		
10 08			1.8	.6	.4	1.1	1.3	.4	.0046							1.1	2.9	11	41	32	160	88	1.1	50			32000

STATION.. McCARTHY LAKE McL-3B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
05 27					.51	.80	.007	2.40																		
06 11	6.24	200	6.0	62	.01	.86	.004	3.10	22.0	1.8	3.5	3.7	5.10	66.0						.03						
06 23					.47	.77	.013	2.65																		
07 07	6.19	200	11	67	.53	.82	.006	3.20	24.0	1.75	3.5	3.65	5.10	61.0						.02						
08 06	6.24	220	4	62	.62	.98	.020	3.25	22.0	1.80	3.5	3.85	5.05	70.0						.02						
09 09	6.73	210	5	69	.46	.72	.004	2.95	24.8	1.70	3.4	3.75	4.90	47.5						.02						
10 08	5.61	205	11	65	.30	.75	.001	3.35	23.0	1.90	3.2	3.80	5.05	69.0						.03						

STATION .. McCARTHY LAKE McL-3b

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.018	.001																	
06 11			2.5	1.2	8.1				.0112																		
06 23									.0143																		
07 07			2.0	1.2	2.6				.0128																		
08 06			2.7	1.6	3.6				.0064																		
09 09			2.1	.6	5.8				.0131																		
10 08			1.8	.4	3.1				.0133																		

STATION.. McCARTHY LAKE McL-4

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
05 13					.460	.70	.008	2.45																		

STATION .. McCARTHY LAKE McL-4

MONTH DAY 1981	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 13									.020	.006																	

STATION.. McCARTHY LAKE McL-5

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L																										
			ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																			
05 13					.114	.49	.004	.595																			

STATION .. McCARTHY LAKE McL-5

MONTH DAY 1981	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g								
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 13									.007																		

STATION .. McCARTHY LAKE McL-6

MONTH DAY	1981		
		DISS.	SOLIDS in mg/L
		SUSP.	
		ORGANIC	DISS. CARBON in mg/L
		IN ORGANIC	
		APPARENT COLOUR	
		CORRECTED "A"	
		"A"	CHLOROPHYLL in ug/L
		"B"	
		TOTAL	PHOSPHORUS in mg/L
		DISS. REACTIVE	
		Hg in ug/L	
		Ra in pCi/L	
		U in ug/L	
		"ALPHA"	GROSS "A" & "B" pCi/L
		"BETA"	
		TOTAL P	SEDIMENTS in mg/g
		TOTAL KJELDAHL N	
		% LOSS ON IGNITION	SEDIMENTS in ug/g
		COPPER	
		NICKEL	
		ZINC	
		LEAD	
		CADMIUM	
		CHROMIUM	
		CALCIUM	
		MAGNESIUM	
		IRON	

05 14
.009
.006

STATION .. McCARTHY LAKE McL-6

MONTH DAY	1981	
pH		
CONDUCTIVITY in umhos/cm		
ALKALINITY as CaCO3		
HARDNESS as CaCO3		
NH_3	NITROGEN AS "N"	
TKN.		
NO_2		
NO_3		
CALCIUM		
MAGNESIUM		
SODIUM		
POTASSIUM		
CHLORIDE		
SULPHATE		
COPPER		
NICKEL		
LEAD		
ZINC		
CADMIUM		
IRON		
ALUMINUM		
COBALT		
CHROMIUM		
BARIUM		
MANGANESE		
ARSENIC		

MEASURED IN mg/L

05 14
.164
.54
.002
.140

STATION.. DEPOT LAKE DL-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																					
05 13	6.64	142	11	41	.094	.49	.001	.110	12.4	2.5	5.8	1.2	9.00	38.0	.002	.002	.003	.005	.0002	.02	.020		.002			
05 27					.070	.47	.005	.060																		
06 11	6.93	160	13	47		.36	.012	.090	14	3.0	6.0	1.35	9.2	45.5						.03						
06 24					.080	.37	.003	.130																		
07 07	6.90	180	11	57	.026	.32	.002	.125	17.2	3.45	6.4	1.55	11.0	52.0						.02						
07 21					.008	.29	.004	.045																		
08 06	6.62	160	11	50	.136	.36	.007	.150	15.0	3.05	6.4	1.50	9.45	44.0						.03						
08 19					.076	.30	.005	.065																		
09 09	7.05	160	11	50	.068	.34	.001	.120	15.2	3.00	6.4	1.50	9.50	42.0						.02						
09 23					.058	.30	.002	.135							.001	.003	.008	.004	.0002		.020		.001			
10 13	6.79	180	12	56	.004	.28	.001	.040	17.0	3.35	6.5	1.50	10.5	52.0						.03						

STATION .. DEPOT LAKE DL-1

1961 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L "A"	CHLOR-OPHYLL in ugm/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
05 13			4.1	2.8	11.7	5.2	8.0	1.0	.022	.011																	
05 27						6.3	7.8	.6	.0132																		
06 11			4.0	3.0	20.3	.3	.9	.3	.0135																		
06 24						.7	1.6	1.2	.0190																		
07 07			3.6	2.4	11.2	1.8	2.0	.8	.0140																		
07 21						1.5	3.0	.8	.0300																		
08 06			6.8	3.0	13.0	2.7	3.2	.9	.0130																		
08 19						1.4	1.7	.5	.0240																		
09 09			3.4	2.2	13.9	2.0	2.5	.4	.0158																		
09 23						3.3	3.5	.1	.0085																		
10 13			3.6	2.6	8.5	5.3	5.9	.8	.0550								1.6	9.2	29	34	20	150	110	2.1	30		19000

STATION.. DEPOT LAKE DL-1B

1961 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																					
05 27					.098	.30	.002	.130																		
06 11	6.97	165	11	52	.15	.35	.005	.055	15.6	3.15	6.3	1.6	9.45	50.5						.03						
06 24					.204	.49	.002	.115																		
07 07	7.20	150	14	46	.252	.55	.001	.130	13.8	2.85	5.8	1.25	9.20	41.0						.02						
08 06	6.53	136	11	39	.160	.56	.022	.310	11.6	2.50	5.6	1.25	8.40	33.0						.06						
09 09	6.50	134	19	40	.540	.78	.001	.040	12.2	2.40	5.5	1.25	8.45	31.0						.22						
10 08	6.79	140	18	42	.800	1.07	.001	.020	12.8	2.55	5.5	1.20	8.75	34.0						.56						

STATION .. DEPOT LAKE DL-1B

1981 MONTH DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.009	.001																	
06 11			4.0	3.0	16.2				.0124																		
06 24									.0440																		
07 07			3.7	2.4	9.8				.0290																		
08 06			6.8	2.6	12.1				.0160																		
09 09			3.7	4.0	18.4				.0280																		
10 13			4.4	5.6	20.7				.0600																		

STATION.. DEPOT LAKE DL-2

MEASURED IN mg/L

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																		
05 13	6.82	136	5.0	39	.104	.36	.001	.110	11.6	2.45	5.6	1.15	8.9	36.0	.002	.002	.003	.004	.0004	.02	.010		.002			
05 27					.082	.37	.004	.05																		
06 11	6.71	142	10.0	39	.094	.37	.078	.125	11.4	2.6	5.8	1.30	8.95	39.0						.02						
06 24					.118	.42	.002	.065																		
07 07	7.24	180	11.0	57	.038	.37	.001	.090	17.4	3.40	6.4	1.50	11.0	50.5						.03						
07 21																										
08 06	6.52	160	12.0	47	.140	.39	.004	.090	14.0	3.00	6.2	1.45	9.35	41.5						.06						
08 19					.120	.41	.002	.015																		
09 09	6.72	165	13.0	51	.096	.35	.001	.010	15.4	3.10	6.4	1.50	10.0	42.5						.03						
09 23					.088	.30	.001	.010							.001	.003	.005	.004	.0001		.047		.002			
10 13	7.10	170	12.0	53	.088	.32	.001	.015	16.0	3.2	6.6	1.45	10.5	46.0						.05						

STATION .. DEPOT LAKE DL-2

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g									
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 13			3.8	2.4	11.7	11.0	15.0	1.4	.013																	
05 27						7.0	6.8	.4	.0180																	
06 11			3.8	3.0	17.6	.8	1.6	.7	.0153																	
06 24						1.3	1.9	1.2	.0300																	
07 07			3.7	2.8	11.2	1.2	1.5	.8	.0151																	
07 21						1.5	2.7	.8	.0153																	
08 06			6.9	2.6	9.8	4.7	5.9	1.0	.0160																	
08 19						2.1	3.4	1.3	.0092																	
09 09			3.4	3.0	15.7	3.0	4.7	2.3	.0118																	
09 23						6.3	9.0	8.3	.0108																	
10 13			3.7	2.8	11.2	3.7	3.9	1.2	.0109							1.4	7.6	25	34	24	140	70	1.4	33			16000

STATION.. DEPOT LAKE DL-2B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																					
05 27					.092	.32	.004	.09																		
06 11	6.38	128	9	34	.012	.53	.340	.405	10.0	2.3	5.4	1.20	8.4	33.5						.06						
06 24					.044	.33	.004	.060																		
07 07	6.52	148	9	44	.098	.42	.001	.100	13.2	2.75	5.9	1.25	9.15	39.5						.03						
08 06	6.73	175	11	52	.076	.34	.002	.030	15.4	3.35	9.5	1.55	10.5	53.0						.03						
09 09	6.48	145	19	43	.420	.75	.001	.010	13.0	2.55	5.8	1.30	9.0	33.5						.25						
10 13	6.75	170	13	53	.132	.40	.001	.010	16.0	3.20	6.5	1.35	10.5	47.0						.05						

STATION .. DEPOT LAKE DL-2B

1981 MONTH DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.013	.001																	
06 11			3.8	4.0	17.6				.0175																		
06 24									.0200																		
07 07			3.7	3.2	9.8				.0129																		
08 06			6.5	2.0	12.1				.0147																		
09 09			3.6	4.4	25.6				.0250																		
10 13			3.8	3.0	11.2				.0111																		

STATION.. DEPOT LAKE DL-3

MEASURED IN mg/L

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO2	NITROGEN AS "N" NO3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
05 13					.450	1.09	.001	.190																		

STATION .. DEPOT LAKE DL-3

SEDIMENTS in ug/g

MONTH DAY 1981	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOROPHYLL in ug/L "A"	CHLOROPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	in mg/g TOTAL P	in mg/g TOTAL KJEL-DAHL N	in mg/g % LOSS ON IGNITION	in mg/g COPPER	in mg/g NICKEL	in mg/g ZINC	in mg/g LEAD	in mg/g CADMIUM	in mg/g CHROMIUM	in mg/g CALCIUM	in mg/g MAGNESIUM	in mg/g IRON
05 13									.021																	

STATION.. HORNE LAKE HL-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 22	5.82	540	92	72	3.75	5.18	.020	.070	21.0	4.65	60	3.65	117	45.0	.005	.010	.003	.058	.0003	.27	.089		.004			
10 13	6.97	510	19	76	.004	3.60	.036	.240	22.2	5.05	63	3.85	116	46.0	.008	.010	.003	.010	.0005	.11	.058		.004			

STATION .. HORNE LAKE HL-1

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 22			4.5	10.0	13.4				.572	.420																	
10 13			5.5	6.2	19.3	35.0	46.0	5.0	.5800																		

STATION.. HORNE LAKE HL-1B

MEASURED IN mg/L

MONTH DAY	1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO2	NITROGEN AS "N" NO3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
10 13		6.66	510	20	76	.004	3.70	.038	.230	22.2	5.05	64	3.70	114	47.0						.12						

STATION .. HORNE LAKE HL-1B

MONTH DAY	1981	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in mg/g % LOSS ON IGNITION	SEDIMENTS in mg/g COPPER	SEDIMENTS in mg/g NICKEL	SEDIMENTS in mg/g ZINC	SEDIMENTS in mg/g LEAD	SEDIMENTS in mg/g CADMIUM	SEDIMENTS in mg/g CHROMIUM	SEDIMENTS in mg/g CALCIUM	SEDIMENTS in mg/g MAGNESIUM	SEDIMENTS in mg/g IRON
10 13				5.4	8.2	19.3				.5900																		

STATION .. HORNE LAKE HL-2

MONTH DAY	1981
	pH
	CONDUCTIVITY in umhos/cm
	ALKALINITY as CaCO3
	HARDNESS as CaCO3
04 22	NH_3 (NITROGEN AS "N")
.012	TKN. (NITROGEN AS "N")
4.70	NO_2 (NITROGEN AS "N")
.020	NO_3 (NITROGEN AS "N")
.070	CALCIUM
	MAGNESIUM
	SODIUM
	POTASSIUM
	CHLORIDE
	SULPHATE
	COPPER
	NICKEL
	LEAD
	ZINC
	CADMIUM
	IRON
	ALUMINUM
	COBALT
	CHROMIUM
	BARIUM
	MANGANESE
	ARSENIC

MEASURED IN mg/L

STATION .. HORNE LAKE HL-2

MONTH DAY	1981
	SOLIDS in mg/L — DISS.
	SOLIDS in mg/L — SUSP.
	DISS. CARBON in mg/L — ORGANIC
	DISS. CARBON in mg/L — IN ORGANIC
	APPARENT COLOUR
	CORRECTED "A"
	CHLOROPHYLL in ug/L — "A"
	CHLOROPHYLL in ug/L — "B"
.530	PHOSPHORUS in mg/L — TOTAL
.370	PHOSPHORUS in mg/L — DISS. REACTIVE
	Hg in ug/L
	Ra in pCi/L
	U in ug/L
	GROSS "A" & "B" pCi/L — "ALPHA"
	GROSS "A" & "B" pCi/L — "BETA"
	SEDIMENTS in mg/g — TOTAL P
	SEDIMENTS in mg/g — TOTAL KJELDAHL N
	SEDIMENTS in ug/g — % LOSS ON IGNITION
	SEDIMENTS in ug/g — COPPER
	SEDIMENTS in ug/g — NICKEL
	SEDIMENTS in ug/g — ZINC
	SEDIMENTS in ug/g — LEAD
	SEDIMENTS in ug/g — CADMIUM
	SEDIMENTS in ug/g — CHROMIUM
	SEDIMENTS in ug/g — CALCIUM
	SEDIMENTS in ug/g — MAGNESIUM
	SEDIMENTS in ug/g — IRON

STATION.. METEVIER LAKE ML-1

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 21	6.64	128		18	.044	.29	.002	.050	5.6	1.00	15	.50	27.5	9.0						.11						
06 11	6.6	129	18	18	.104	.37	.001	.005	5.4	1.05	15	.40	28.0	9.5						.08						
07 08	6.78	126	9	19	.010	.41	.001	.005	5.6	1.10	14	.35	27.0	8.5						.12						

STATION .. METEVIER LAKE ML-1

MONTH DAY 1961	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOROPHYLL in ugm/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 21			3.9	1.0	13.4				.011	.001																	
06 11			4.7	1.8	20.2	2.1	2.3	.7	.018																		
07 08			5.6	1.8	24.7	3.2	3.2	1.5	.016																		

STATION.. METEVIER LAKE ML-1B

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
06 11	6.57	128	5	18	.192	.42	.001	.005	5.4	1.05	15	.40	28.0	9.0						.12						

STATION .. METEVIER LAKE ML-1B

MONTH DAY 1981	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL ug/m3/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 11			50	1.8	21.1				.017																		

STATION.. UNNAMED LAKE UL-1

1981 MONTH	DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
		MEASURED IN mg/L																									
04	21					.390	.69	.051	1.60																		
06	10	6.71	580	9	265	.246	.63	.026	1.90	84	13.5	10	5.7	17.5	253						.04						
07	08	6.77	600	10	237	.102	.47	.019	1.80	75	12.0	11	5.90	18.5	240						.02						
08	06	7.39	600	11	233	.202	.57	.017	1.60	71	13.5	11	5.60	18.0	248						.20						
09	10	7.11	600	13	256	.148	.43	.009	1.40	78	14.9	11	5.50	17.0	248						.02						
10	14	6.90	600	12	252	.156	.25	.006	1.50	77	14.5	11	6.45	18.0	254	.010	.0040	.005	.004	.0001	.03	.090		.0030			

STATION .. UNNAMED LAKE UL-1

1981 MONTH	DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04	21									.008	.001																	
06	10			2.9	2.2	18.4	1.4	1.7	.4	.0077																		
07	08			2.9	2.2	4.9	.5	.7		.0400																		
08	06			2.9	2.2	8.9	1.0	1.9	1.1	.0240																		
09	10			2.9	2.2	3.1				.0075																		
10	14			2.9	2.6	8.5	.8	.8	.3								1.6	9.6	27	41	31	150	64	1.8	38			19000

STATION.. UNNAMED LAKE UL-1B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
06 10	6.46	580	15	262	.168	.44	.012	1.80	82	14.0	10.6	5.20	18.0	265						.06						
07 08	6.66	600	11	237	.074	.32	.011	1.60	75	12.0	10.8	5.95	18.5	247						.02						
08 06	6.90	610	11	234	.198	.42	.013	1.35	70	14.5	10.8	6.30	18.5	261						.10						
09 10	6.71	590	11	252	.094	.35	.004	.615	76	14.9	10.3	5.70	17.0	256						.02						
10 14	6.76	600	14	252	.248	.30	.010	1.350	77	14.5	11.1	6.45	18.0	256						.08						

STATION .. UNNAMED LAKE UL-1B

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 10			2.8	2.4	17.1				.0073																		
07 08			2.9	2.2	6.6				.0154																		
08 06			2.8	3.4	9.4				.0250																		
09 10			2.9	2.2	7.6				.0056																		
10 14			3.0	3.6	9.4																						

STATION.. TROUT LAKE TL-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 24	6.68	140		41	.074	.54	.001	.175	12.2	2.5	6.1	1.25	9.0	33.5	.001	.002	.003	.004	.0002	.05	.022		.002			
09 23	6.64	160	14	50	.200	.53	.002	.015	15.4	2.85	6.7	1.50	10.5	45.0	.001	.004	.016	.003	.0002	.05	.025		.002			

STATION .. TROUT LAKE TL-1

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 24			3.3	2.2	13.4				.024	0																	
09 23			3.5	3.6	14.3	19.0	19.0	18.0																			

STATION.. TROUT LAKE TL-1B

MEASURED IN mg/L

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
09 23	6.47	160	19	49	.262	.61	.003	.005	15.0	2.80	6.4	1.40	10.0	42.5						.13						

STATION .. TROUT LAKE TL-1B

1981 MONTH DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
09 23			3.9	5.0	16.1																						

STATION.. ESTEN LAKE EL-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 24	7.10	190	11	59	.102	.47	.003	.560	17.8	3.60	7.4	1.9	12.5	51.5	.001	.003	.003	.005	.0002	.06	.017		.002			
05 14																										
05 27					.288	.83	.007	.190																		
06 09	9.11	195	13	59	.24	.47	.01	.020	17.6	3.55	7.7	1.80	12.5	54.0						.03						
06 24					.106	.35	.002	.105																		
07 08	7.54	160	11	48	.006	.45	.001	.020	14.6	2.9	7.6	1.45	13.0	45.0						.03						
07 21					.022	.31	.007	.160																		
08 06	6.81	165	12	47	.090	.52	.006	.160	14.0	3.00	8.0	1.45	13.0	40.5						.02						
08 19					.380	.78	.008	.355																		
09 09	6.83	180	12	55	.050	.39	.003	.180	16.6	3.30	7.9	1.65	12.5	44.0						.03						
09 23					.070	.39	.003	.040							.001	.003	.006	.003	.0002		.022		.001			
10 08	7.07	180	14	56	.016	.30	.002	.170	17.0	3.25	7.9	1.55	13.0	52.0						.03						

STATION .. ESTEN LAKE EL-1

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CHLOR-OPHYLL in ug/L CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
04 24			3.1	2.0	9.4				.040																		
05 14						69	75	19																			
05 27						8.7	14	2.6	.1220																		
06 09			4.0	2.6	25.7	12.0	17	3.7	.0640																		
06 24						2.3	2.6		.0540																		
07 08			3.7	2.2	13.4	3.9	4.7	.8	.0250																		
07 21						2.0	2.6	.3	.0380																		
08 06			6.4	2.2	4.9	5.7	6.3	.8	.0180																		
08 19						1.8	2.7	.4	.0250																		
09 09			3.5	2.8	9.9	1.4	2.6	.6	.0165																		
09 23																											
10 08			3.5	2.8	9.9	4.5	5.3	1.3								2.5	8.3	23	36	32	190	110	2.2	41			32000

STATION.. ESTEN LAKE EL-1B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
05 27					.074	.29	.007	.580																		
06 09	6.64	200	19.0	65	.006	.36	.001	.69	19.6	4.0	7.6	1.95	12.5	59.0						.03						
06 24					.050	.32	.002	.600																		
07 08	6.89	205	12.0	65	.004	.23	.002	.510	19.6	3.95	7.7	1.90	13.0	52.0						.03						
08 06	6.56	200	12.0	62	.030	.26	.002	.680	18.6	3.90	7.7	1.90	12.5	58.0						.03						
09 09	6.52	205	15.0	66	.004	.23	.001	.655	20.2	3.90	7.7	1.90	12.0	46.5						.02						
10 08	6.80	200	16.0	65	.096	.35	.010	.525	19.8	3.90	7.8	1.80	12.5	57.0						.05						

STATION .. ESTEN LAKE EL-1B

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ugm/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.038	.029																	
06 09			3.6	3.0	18.9																						
06 24									.0510																		
07 08			3.5	2.6	13.4				.0470																		
08 06			6.2	2.6	13.9				.0670																		
09 09			3.5	3.8	11.2				.0870																		
10 08			3.6	4.0	12.6																						

STATION.. ESTEN LAKE EL-2

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L																								
			ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3																			
04 24					.206	.50	.003	.520																			
05 14																											
05 27					.302	.91	.009	.405																			
06 09	8.43	200	14	58	.31	.65	.013	.01	17.4	3.65	7.7	1.8	13.0	60.0						.03							
06 24					.072	.39	.003	.155																			
07 08	7.15	180	12	55	.006	.47	.001	.010	16.4	3.4	7.9	1.6	13.5	51.0						.02							
07 21					.010	.34	.004	.010																			
08 06	6.94	175	13	50	.204	.59	.009	.170	15.0	3.15	8.4	1.55	13.5	42.5						.02							
08 19					.044	.35	.003	.105																			
09 09	7.09	175	13	53	.014	.28	.001	.080	16.0	3.20	8.1	1.55	13.0	43.0						.02							
09 23					.500	1.50	.005	.085							.001	.004	.007	.003	.0002		.023		.001				
10 08	7.09		13	56	.024	.30	.002	.130	17.0	3.25	8.2	1.70	13.0	47.0						.04							

STATION .. ESTEN LAKE EL-2

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g									
	DISS.	SUSP.	ORGANIC	IN ORGANIC		CORRECTED "A"	"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 24									.069	.046																
05 14						72	78	16																		
05 27						11.0	16.0	3.5	.1280																	
06 09			4.1	3.2	26.5	8.9	13.0	3.7	.0810																	
06 24						1.3	1.7	1.6	.0480																	
07 08			3.8	2.8	13.4	4.5	6.3	1.0	.0380																	
07 21						1.7	2.4	.8	.0370																	
08 06			3.6	2.8	9.0	5.7	6.3	1.0	.0210																	
08 19						3.1	3.8	.9	.0210																	
09 09			3.6	2.6	11.2	3.2	3.8	.5	.0360																	
09 23																										
10 08			3.8	2.8	10.3	4.5	5.5	2.1	.0210							2.8	10	24	49	55	240	180	2.1	31		29000

STATION.. ESTEN LAKE EL-2B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																					
05 27					.076	.35	.005	.860																		
06 09	6.6	245	11	80	.004	.65	.02	.835	24.0	4.85	7.9	2.2	13.5	73.0						.09						
06 24					.040	.31	.002	.845																		
07 08	6.78	220	11	73	.002	.30	.001	.600	22.0	4.45	8.1	2.00	13.0	62.0						.03						
08 06	6.48	240	13	73	.102	.44	.006	.790	22.0	4.45	8.1	2.2	13.5	71.0						.03						
09 09	6.93	175	12	52	.008	.35	.001	.015	15.6	3.15	8.3	1.50	13.0	41.5						.02						
10 08	6.96		24	86	.118	.38	.003	.550	24.0	6.25	8.1	2.25	13.0	55.0						.04						

STATION .. ESTEN LAKE EL-2B

1981 MONTH DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.060	.044																	
06 09			3.6	3.4	14.8				.0710																		
06 24									.0770																		
07 08			3.4	3.0	9.3				.0650																		
08 06			3.3	4.4	18.4				.1400																		
09 09			3.3	2.8	11.2				.0370																		
10 08			4.0	6.6	12.6				.1750																		

STATION.. ESTEN LAKE EL-3

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
			MEASURED IN mg/L																							
04 24	6.57	275	12	85	.216	1.10	.003	.620	25.0	5.40	7.7	2.45	13.0	84.0	.001	.001	.003	.021	.0003	.12	.052		.007			

STATION .. ESTEN LAKE EL-3

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
04 24									.067	.040																

STATION.. ESTEN LAKE EL-4

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	TKN.	NO_2	NO_3	MEASURED IN mg/L																	
04 24					.222	.55	.004	.555																		

STATION .. ESTEN LAKE EL-4

MONTH DAY 1981	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g									
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 24			3.7	3.4	16.6				.004	.004																

STATION.. ELLIOT LAKE ELL-1

MONTH	DAY	1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																							
04	22		6.22	115		23	.044	.34	.006	.345	6.8	1.45	7.6	.70	13.0	20.5	.002	.003	.003	.008	.0002	.13	.072		.002			
06	11		6.87	106	6	22	.028	.21	.004	.275	6.4	1.55	7.8	.75	13.5	21.0						.05						
07	08		7.39	112	5	23			.003	.245	6.8	1.40	7.6	.70	13.5	20.0						.06						
08	06		6.78	108	6	24	.036	.17	.004	.110	7.2	1.50	7.9	.70	13.5	20.5						.02						
09	10		6.91	110	6	25	.006	.11	.001	.035	7.6	1.55	8.3	.80	13.0	21.5						.01						
10	07		6.65	110	9	24	.014	.17	.002	.170	7.4	1.35	7.9	.65	13.0	21.5	.003	.004	.004	.004	.0003	.04	.019		.001			

STATION .. ELLIOT LAKE ELL-1

MONTH	DAY	1981	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04	22				2.8	1.6	6.3				.009																		
06	11				2.8	1.2	10.8	1.3	1.7	.5	.0116																		
07	08				2.7	1.2	8.0	2.1	2.6	.4	.0080																		
08	06				2.3	1.0	4.9	1.8	1.9	.3	.0006																		
09	10				2.6	1.0	9.9	2.0	2.1	.2	.0056																		
10	07				2.0	1.2	5.8	.9	1.2	.6								2.0	6.7	21	51	42	240	120	2.2	46			36000

STATION.. ELLIOT LAKE ELL-1B

MONTH DAY	1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
						NH_3	TKN.	NO_2	NO_3																		
				MEASURED IN mg/L																							
06 11		6.65	106	6	23	.072	.25	.003	.285	6.6	1.55	7.8	.75	13.5	22.0						.05						
07 08		6.70	108	5	26	.034	.21	.001	.305	7.6	1.60	8.0	.80	14.0	21.0						.02						
08 06		6.52	108	5	24	.118	.32	.004	.250	7.2	1.55	7.9	.70	13.5	21.0						.02						
09 10		6.61	112	7	26	.020	.17	.001	.230	7.6	1.60	8.0	.80	12.5	21.0						.08						
10 07		6.11	109	7	24	.014	.13	.002	.170	7.2	1.50	7.7	.65	13.0	22.0						.35						

STATION .. ELLIOT LAKE ELL-1B

MONTH DAY	1981	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Mg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS											
		DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	in mg/g		in ug/g								
																	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 11				2.7	1.4	9.5				.0112																	
07 08				2.4	1.2	8.0				.0210																	
08 06				2.4	1.8	7.2				.0099																	
09 10				2.5	1.6	5.8				.0170																	
10 07				2.1	.2	12.6																					

STATION.. ELLIOT LAKE ELL-2

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 22	6.25	110		24	.05	.32	.005	.360	7.0	1.5	8.4	.75	14.5	21	.003	.003	.003	.008	.0002	.18	.092		.002			
06 11	6.92	106	6	22	.028	.21	.003	.275	6.4	1.55	8.0	.75	14.0	21.5						.04						
07 08	6.93	106	6	24	.002	.22	.001	.215	7.2	1.55	7.9	.75	14.0	20.5						.05						
08 06	6.70	108	7	24	.020	.20	.003	.225	7.0	1.50	8.1	.70	13.5	20.5						.02						
09 10	6.77	108	5	24	.004	.09	.001	.015	7.2	1.55	8.3	.80	13.0	20.5						.01						
10 07	6.59	106	6	24	.010	.13	.001	.170	7.2	1.45	7.9	.65	13.5	22.5	.003	.003	.008	.003	.0003	.05	.022		.001			

STATION .. ELLIOT LAKE ELL-2

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Rg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 22			2.5	1.2	6.3				.012																		
06 11			3.0	1.2	9.5	1.0	1.4	.3	.0102																		
07 08			2.7	.6	6.7	2.2	2.6	.4	.0060																		
08 06			2.3	1.2	7.6	2.7	3.0	.3	.0073																		
09 10			2.6	1.0	5.8	2.5	2.9	.1	.0062																		
10 07			2.1	.8	5.8	1.0	1.5	.4	.0093							1.9	5.9	20	59	41	220	140	1.6	43			31000

STATION.. ELLIOT LAKE ELL-2B

MEASURED IN mg/L

MONTH DAY	1981 pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
06 11	6.57	110	6	23	.062	.18	.001	.300	6.6	1.55	8.2	.75	14.0	21.5						.05						
07 08	6.40	106	7	25	.002	.22	.005	.310	7.4	1.60	8.0	.75	14.0	21.0						.04						
08 06	6.37	110	6	24	.024	.14	.006	.035	7.2	1.55	8.1	.70	13.5	21.0						.06						
09 10	6.30	110	9	25	.042	.26	.002	.160	7.4	1.60	8.0	.80	13.0	19.5						1.74						
10 07	5.99	108	8	24	.012	.16	.001	.455	7.0	1.50	8.0	.70	13.0	21.5						.60						

STATION .. ELLIOT LAKE ELL-2B

MONTH DAY	1981 SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL N	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 11			2.9	1.6	8.1				.0103																		
07 08			2.2	1.2	4.9				.0129																		
08 06			2.2	2.2	9.9				.0098																		
09 10			3.1	2.4	47.6				.0171																		
10 07			2.6	.6	15.3				.0134																		

STATION .. ELLIOT LAKE ELL-3

MEASURED IN mg/L

MONTH DAY	1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
						NH_3	TKN.	NO_2	NO_3																		
04 22						1.52	1.12	.001	.340																		

STATION .. ELLIOT LAKE ELL-3

MONTH DAY	1981	SOLIDS in mg/L		DISS. CARBON in mg/L		CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		CORRECTED "A"	APPARENT COLOUR	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in ug/g												
		DISS.	SUSP.	ORGANIC	IN ORGANIC	"A"	"B"	TOTAL	DISS. REACTIVE					"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 22								.008	.001																		

STATION.. ELLIOT LAKE ELL-4

MEASURED IN mg/L

MONTH DAY	1981 04 22
pH	
CONDUCTIVITY in umhos/cm	
ALKALINITY as CaCO3	
HARDNESS as CaCO3	
NITROGEN AS "N": NH_3	.050
NITROGEN AS "N": TKN.	.32
NITROGEN AS "N": NO_2	.004
NITROGEN AS "N": NO_3	.340
CALCIUM	
MAGNESIUM	
SODIUM	
POTASSIUM	
CHLORIDE	
SULPHATE	
COPPER	
NICKEL	
LEAD	
ZINC	
CADMIUM	
IRON	
ALUMINUM	
COBALT	
CHROMIUM	
BARIUM	
MANGANESE	
ARSENIC	

STATION .. ELLIOT LAKE ELL-4

SEDIMENTS

MONTH DAY	1981 04 22
SOLIDS in mg/L: DISS.	
SOLIDS in mg/L: SUSP.	
DISS. CARBON in mg/L: ORGANIC	
DISS. CARBON in mg/L: IN ORGANIC	
APPARENT COLOUR	
CORRECTED "A"	
CHLOROPHYLL in ug/L: "A"	
CHLOROPHYLL in ug/L: "B"	
PHOSPHORUS in mg/L: TOTAL	.009
PHOSPHORUS in mg/L: DISS. REACTIVE	.001
Hg in ug/L	
Ra in pCi/L	
U in ug/L	
GROSS "A" & "B" pCi/L: "ALPHA"	
GROSS "A" & "B" pCi/L: "BETA"	
in mg/g: TOTAL P	
in mg/g: TOTAL KJEL-DAHL N	
% LOSS ON IGNITION	
in ug/g: COPPER	
in ug/g: NICKEL	
in ug/g: ZINC	
in ug/g: LEAD	
in ug/g: CADMIUM	
in ug/g: CHROMIUM	
in ug/g: CALCIUM	
in ug/g: MAGNESIUM	
in ug/g: IRON	

STATION.. ELLIOT LAKE ELL-5

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	NITROGEN AS "N" TKN.	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
			MEASURED IN mg/L																							
04 22					.120	.36	.004	.360																		

STATION .. ELLIOT LAKE ELL-5

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOROPHYLL in ugm/L "A"	CHLOROPHYLL in ugm/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
04 22									.013	.001																	

STATION.. ELLIOT LAKE S.T.P. FINAL EFFLUENT

1982					MEASURED IN mg/L																					
					NITROGEN AS "N"																					
MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
02 08	7.0				19.5	26.0	.02	.1					80													

STATION .. ELLIOT LAKE S.T.P. FINAL EFFLUENT

1982	SOLIDS in mg/L		DISS. CARBON in mg/L				CHLOR-OPHYLL in ugm/L		PHOSPHORUS in mg/L					GROSS "A" & "B" pCi/L		SEDIMENTS													
																in mg/g		in ug/g											
MONTH DAY	DISS.	SUSP.	ORGANIC	IN ORGANIC	BOD_5	PARTICULATE RESIDUE	"A"	"B"	TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
02 08					10.0	15.0			2.70	1.18																	

STATION.. SERPENT RIVER Sr-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC	TEMPERATURE °C
06 26	6.65																										
	7.86	35	7	9	.020	.17	.002	.070	3.0	.45	1.0	.25	.70	6.5						.02							17
07 08	7.00																										
	6.95	32	9	10	.002	.16	.001	.040	3.2	.60	.90	.20	.75	6.0						.05							26
07 22	6.65																										
	7.16	35	7	11	.006	.17	.001	.015	3.4	.65	.7	.20	.80	7.0						.06							22
08 04	6.62				.076	.32	.001	.025																			25
08 20	7.12																										
	7.16	36	8	11	.004	.08	.001	.010	3.4	.60	1.0	.30	.75	7.5						.04							23.5
09 10	6.60																										
	7.03	35	7	12	.010	.20	.001	.014	3.8	.65	1.2	.35	1.35	6.5						.05							19
09 24	6.42				.016	.25	.001	.005																			13
10 14	6.45				.026	.20	.001	.030																			11
10 28	6.78				.025	.21	.003	.05																			6.5
11 10	6.60				.024	.12	.002	.015																			2.5

STATION .. SERPENT RIVER Sr-1

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
06 26			2.4	1.8	.9				.003	.003																	
07 08			2.2	1.0	3.6				.004	.001																	
07 22			2.3	1.2	4.4				.012	.001																	
08 04									.006	.001																	
08 20			2.0	1.2	2.2				.005	.001																	
09 10			2.2	1.6	4.5				.015	.001																	
09 24									.035	.001																	
10 14									.035	.001																	
10 28																											
11 10									.010	.001																	

STATION.. SERPENT RIVER Sr-2

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC	TEMPERATURE oC
06 26	7.49																										
	7.23	680	10	181	3.0	3.17	1.100	11.00	69	2.05	23	13.5	38	188						.03							17
07 08	7.49																										
	6.82	580	11	175	2.05	2.98	1.470	10.20	67	1.80	19	13.1	31	168						.06							27
07 22	7.72	1440	13	453	4.95	7.05		30.0	176	3.40	53	36.8	87	107						.03							21
	6.99																										
08 04	8.02				6.20	6.50	1.60	22.70																			25
08 20	7.46																										
	7.29	1750	15	564	9.40	9.40	1.92	25.0	219	4.40	66	48.9	108	538						.08							22
09 10	7.41																										
	7.22	1850	15	646	15.3	15.3		41.3	249	5.60	70	52.0	112	565						.03							18
09 24	7.79				25.8	24.3	4.750	67.50																			13
10 14	6.45				32.5	35.2		81.30																			9.8
10 28	9.15				21.5	21.8	2.7	58.3																			5.0
11 10	7.50				16.5	14.9	2.150	48.75																			1.5

STATION .. SERPENT RIVER Sr-2

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g										
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
06 26			2.3	2.4	2.2				.012	.001																	
07 08			2.0	1.8	4.9				.008	.001																	
07 22			1.8	3.0	10.3				.031	.001																	
08 04									.011	.001																	
08 20			1.6	2.6	2.2				.021	.001																	
09 10			1.7	3.0	4.5				.012	.003																	
09 24									.155	.001																	
10 14									.050	.001																	
10 28																											
11 10									.018	.001																	

STATION.. SERPENT RIVER Sr-3

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC	TEMPERATURE °C
06 26	7.38																										
	7.17	1000	12	286		4.61			110	2.70	36	21.5	64.0	255						.05							17
07 08	7.22																										
	7.06	500	12	149	2.25	2.83	.500	8.00	57	1.65	17	11.0	27.5	140						.04							28
07 22	7.29																										
	6.93	1060	13	328	2.55	4.88		21.8	127	2.55	38	27.3	66.0	345						.03							20
08 04	7.49				6.20	6.40	.975	.000																			26
08 20	7.67																										
	7.26	2000	15	682	12.0	12.5	1.82	45.5	265	4.85	80	57.4	127	627						.05							23
09 10	7.45																										
	7.23	1340	13	439	9.65	9.65	1.05	5.25	170	3.80	49	36.8	79.0	382						.02							16
09 24	7.56				25.0	21.2	3.750	68.80																			13
10 14	7.25				31.8	33.0	12.90	76.2																			10
10 28	8.19				22.0	22.0	2.6	59.4																			4
11 10	8.28					6.20	.850	18.60																			2

STATION .. SERPENT RIVER Sr-3

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
06 26			2.5	3.0	4.0				.013	.001																	
07 08			2.3	2.4	3.6				.008	.001																	
07 22			2.0	3.0	9.0				.025	.001																	
08 04									.013	.001																	
08 20			1.6	2.8	4.5				.022	.001																	
09 10			1.8	2.2	4.5				.012	.001																	
09 24									.045	.001																	
10 14									.042	.001																	
10 28																											
11 10									.026	.001																	

STATION.. SERPENT RIVER Sr-4

MEASURED IN mg/L

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC	TEMPERATURE °C
06 26	7.01																										
	5.60	760	3	222	3.82	3.99	.370	6.70	84.0	2.90	21	20.0	34.0	200						.09							17
07 08	7.10																										
	7.11	820	10	256	8.05	8.85	.675	16.8	97.0	3.35	16	26.2	26.5	269						.06							29
07 22	7.06																										
	5.37	1140	6	364	9.50	9.92		27.0	138	4.80	22	41.5	34.5	409						.08							20
08 04	7.08				7.30	7.71	.310	28.8																			26
08 20	7.08																										
	7.06	2100	18	747		17.4			288	6.70	61	73.8	94.0	698						.09							23
09 10	7.22																										
	6.84	1600	11	558	13.2	13.6	.65	35.0	214	6.00	3.8	54.3	62.0	575						.06							18
09 24	7.15				28.0	24.2	1.300	67.5																			13
10 14	7.10				30.5	30.9	2.170	66.2																			10
10 28	8.43				27.5	27.5	2.6	61.4																			4
11 10	7.49				26.5	24.0	2.170	55.0																			1.5

STATION .. SERPENT RIVER Sr-4

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Mg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
06 26			2.7	1.6	6.3				.012	.001																	
07 08			2.2	2.4	3.6				.005	.001																	
07 22			2.1	1.8	6.7				.029	.001																	
08 04									.006	.001																	
08 20			1.6	3.2	.9				.030	.001																	
09 10			1.8	1.0	4.5				.028	.001																	
09 24									.035	.001																	
10 14									.045	.001																	
10 28																											
11 10									.015	.001																	

STATION.. MARSHLAND LAKE MAL-1

1961 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 23	6.81	185	11	57	.30	1.04	.002	.440	17.4	3.35	7.2	1.7	12	47.0	.001	.003	.003	.017	.0006	.05	.130		.002			
09 23	6.07	165	14	51	.004	.34	.001	.005	15.6	2.95	7.2	1.45	12	43.5	.002	.003	.012	.002	.0002	.03	.048		.001			

STATION .. MARSHLAND LAKE MAL-1

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pC1/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 23			3.3	2.4	9.4				.039	0																	
09 23			3.5	2.8	12.1	2.5	2.9	.3	.0139																		

STATION.. MARSHLAND LAKE MAL-1B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
09 23	7.06	175	13	50	.026	.38	.002	.005	15.2	2.90	7.3	1.45	12.0	46.0						.03						

STATION .. MARSHLAND LAKE MAL-1B

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
09 23			3.4	2.6	11.2																						

STATION.. MARSHLAND LAKE MAL-2

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINIUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
	MEASURED IN mg/L																									
04 23	6.81	165		49	.066	.53	.002	.325	15.0	2.9	6.8	1.45	11.0	41.0	.001	.003	.003	0.14	.0005	.04	.020		.002			
09 23	6.70	170	14	52	.062	.39	.003	.045	16.0	3.00	7.1	1.50	11.5	46.0	.001	.003	.006	.004	.0001	.04	.026		.002			

STATION .. MARSHLAND LAKE MAL-2

1981 MONTH DAY	SOLIDS in mg/L DISS.	SUSP.	DISS. CARBON in mg/L ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	"B"	PHOSPHORUS in mg/L TOTAL	DISS. REACTIVE	Mg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	"BETA"	SEDIMENTS in mg/g TOTAL P	TOTAL KJEL-DAHL	in ug/g % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 23			3.3	2.6	12.1				.03	0																	
09 23			3.4	3.4	16.6	5.8	7.0	2.4	.0173																		

STATION.. MARSHLAND LAKE MAL-2B

MONTH DAY	1981
	pH
	CONDUCTIVITY in umhos/cm
	ALKALINITY as CaCO3
	HARDNESS as CaCO3
	NH_3 (NITROGEN AS "N")
	TKN. (NITROGEN AS "N")
	NO_2 (NITROGEN AS "N")
	NO_3 (NITROGEN AS "N")
	CALCIUM
	MAGNESIUM
	SODIUM
	POTASSIUM
	CHLORIDE
	SULPHATE
	COPPER
	NICKEL
	LEAD
	ZINC
	CADMIUM
	IRON
	ALUMINUM
	COBALT
	CHROMIUM
	BARIUM
	MANGANESE
	ARSENIC

MEASURED IN mg/L

09 23
6.55
180
20
55
.450
.83
.003
.065
16.8
3.10
6.9
1.60
11.0
46.5
.08

STATION.. MARSHLAND LAKE MAL-2B

MONTH DAY	1981
SOLIDS in mg/L: DISS.	
SOLIDS in mg/L: SUSP.	
DISS. CARBON in mg/L: ORGANIC	
DISS. CARBON in mg/L: IN ORGANIC	
APPARENT COLOUR	
CORRECTED "A"	
CHLOROPHYLL in ug/L: "A"	
CHLOROPHYLL in ug/L: "B"	
PHOSPHORUS in mg/L: TOTAL	
PHOSPHORUS in mg/L: DISS. REACTIVE	
Hg in ug/L	
Ra in pCi/L	
U in ug/L	
GROSS "A" & "B" pCi/L: "ALPHA"	
GROSS "A" & "B" pCi/L: "BETA"	
SEDIMENTS in mg/g: TOTAL P	
SEDIMENTS in mg/g: TOTAL KJEL-DAHL N	
SEDIMENTS in ug/g: % LOSS ON IGNITION	
SEDIMENTS in ug/g: COPPER	
SEDIMENTS in ug/g: NICKEL	
SEDIMENTS in ug/g: ZINC	
SEDIMENTS in ug/g: LEAD	
SEDIMENTS in ug/g: CADMIUM	
SEDIMENTS in ug/g: CHROMIUM	
SEDIMENTS in ug/g: CALCIUM	
SEDIMENTS in ug/g: MAGNESIUM	
SEDIMENTS in ug/g: IRON	

09 23
4.0
5.6
18.8
.0690

STATION.. GRANDEUR LAKE GL-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 23	6.91	155		46	.07	.46	.001	.265	14.0	2.7	6.5	1.4	9.45	36.5	.001	.003	.003	.057	.0004	.05	.016		.002			
09 23	6.79	165	16	50	.116	.46	.002	.005	15.2	3.05	6.8	1.4	11.0	42.5	.002	.003	.007	.002	.0002	.10	.024		.001			

STATION .. GRANDEUR LAKE GL-1

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOROPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 23			3.4	2.4	12.1				.027	0																	
09 23			3.6	3.2	9.9	1.6	2.1	.2	.0123																		

STATION.. GRANDEUR LAKE GL-1B

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
09 23	6.48	165	24	50	.580	1.11	.002	.005	15.2	2.65	6.1	1.45	10.0	36.5						.38						

STATION .. GRANDEUR LAKE GL-1B

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL	in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
09 23			4.5	8.2	26.1				.0530																		

STATION.. GRANDEUR LAKE GL-2

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
04 23	6.79	136		39	.070	.60	.001	.190	11.8	2.35	5.9	1.25	8.8	33.5	.001	.002	.003	.002	.0002	.06	.056		.002			
09 23	6.67	160	14	39	.070	.38	.003	.005	14.6	2.85	6.4	1.40	10.5	42.0	.001	.003	.007	.002	.0002	.07	.022		.002			

STATION .. GRANDEUR LAKE GL-2

MONTH DAY 1981	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 23			3.3	2.4	13.4				.035	.004																	
09 23			3.6	3.2	14.4	5.9	6.8	.9	.0121																		

STATION :: GRANDEUR LAKE GL-2B

MEASURED IN mg/L

MONTH DAY	1981
09 26	
pH	6.53
CONDUCTIVITY in umhos/cm	155
ALKALINITY as CaCO3	25
HARDNESS as CaCO3	45
NITROGEN AS "N": NH_3	.950
NITROGEN AS "N": TKN.	1.38
NITROGEN AS "N": NO_2	.001
NITROGEN AS "N": NO_3	.005
CALCIUM	14.0
MAGNESIUM	2.60
SODIUM	5.8
POTASSIUM	1.40
CHLORIDE	9.00
SULPHATE	34.0
COPPER	
NICKEL	
LEAD	
ZINC	
CADMIUM	
IRON	.26
ALUMINUM	
COBALT	
CHROMIUM	
BARIUM	
MANGANESE	
ARSENIC	

STATION :: GRANDEUR LAKE GL-2B

MONTH DAY	1981
09 23	
SOLIDS in mg/L: DISS.	
SOLIDS in mg/L: SUSP.	
DISS. CARBON in mg/L: ORGANIC	4.4
DISS. CARBON in mg/L: IN ORGANIC	8.0
APPARENT COLOUR	25.2
CORRECTED "A"	
CHLOROPHYLL in ug/L: "A"	
CHLOROPHYLL in ug/L: "B"	
PHOSPHORUS in mg/L: TOTAL	
PHOSPHORUS in mg/L: DISS. REACTIVE	
Hg in ug/L	
Ra in pCi/L	
U in ug/L	
GROSS "A" & "B" pCi/L: "ALPHA"	
GROSS "A" & "B" pCi/L: "BETA"	
TOTAL P in mg/g	
TOTAL KJEL-DAHL N in mg/g	
% LOSS ON IGNITION	
SEDIMENTS in ug/g: COPPER	
SEDIMENTS in ug/g: NICKEL	
SEDIMENTS in ug/g: ZINC	
SEDIMENTS in ug/g: LEAD	
SEDIMENTS in ug/g: CADMIUM	
SEDIMENTS in ug/g: CHROMIUM	
SEDIMENTS in ug/g: CALCIUM	
SEDIMENTS in ug/g: MAGNESIUM	
SEDIMENTS in ug/g: IRON	

STATION.. NORDIC LAKE NL-1

1981 MONTH DAY	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N" NH_3	TKN.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					MEASURED IN mg/L																					
04 21					.460	.74	.085	2.05							.003	.003	.003	.006	.0002		.063		.002			
05 14																										
05 27					.480	.82	.075	2.10																		
06 10	6.70	620	15	289	.006	.60	.47	2.45	72.0	14.5	11	5.5	19.0	268						.04						
06 24					.380	.71	.046	2.00																		
07 08	6.80	640	7	258	.372	.63	.044	2.20	82.0	13.0	11	6.10	19.5	282						.02						
07 22																										
08 05	7.01	640	9	244	.330	.62	.034	1.95	74.0	14.5	11	6.30	19.5	292						.04						
08 19					.292	.55	.028	2.00																		
09 10	6.76	660	10	276	.258	.49	.021	1.85	83.6	16.3	11	6.30	19.0	271						.02						
09 24					.222	.51	.014	1.00							.007	.004	.003	.005	.0001		.068		.002			
10 14	6.92	660	10	263	.284	.42	.015	1.95	79.0	16.0	12	6.40	20.0	296						.05						

STATION .. NORDIC LAKE NL-1

1981 MONTH DAY	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g										
	DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
04 21									.006	.001																	
05 14						.9	1.1	.2																			
05 27						.6	.7	.1	.0072																		
06 10			3.0	2.2	16.6	.8	1.0	.5	.0180																		
06 24						1.1	1.5	1.2	.0177																		
07 08			2.8	1.8	6.7	1.0	1.0		.0064																		
07 22						.5	.7	.4	.0083																		
08 05			2.5	2.0	9.9	.4	.5	.2	.0135																		
08 19						.6	.7	.3	.0160																		
09 10			2.7	2.0	5.8	.5	.6	.1	.0062																		
09 24									.0051																		
10 14			2.6	2.0	5.8	.4	.6	.2	.0050							1.4	6.5	20	46	36	140	95		42			25000

STATION.. NORDIC LAKE NL-1B

MONTH DAY	1981	pH	CONDUCTIVITY in umhos/cm	ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
						NH_3	TKN.	NO_2	NO_3	MEASURED IN mg/L																	
05 27						.47	.65	.026	2.20																		
06 10		6.67	630	7	234	.144	.71	.440	2.40	70.0	14.5	11	5.6	18.5	276						.03						
06 24						.37	.60	.059	2.05																		
07 08		6.28	620	9	256	.334	.67	.049	2.2	81.0	13.0	11	6.20	19.0	264						.03						
08 05		6.50	630	7	242	.254	.53	.038	1.70	73.0	14.5	11	6.20	19.0	274						.04						
09 10		6.23	630	9	265	.120	.23	.010	.550	80.2	15.8	11	6.20	18.0	267						.04						
10 14		6.87	660	10	281	.294	.45	.017	1.95	86.0	16.0	12	6.40	19.5	305						.05						

STATION .. NORDIC LAKE NL-1B

MONTH DAY	1981	SOLIDS in mg/L		DISS. CARBON in mg/L		APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L		PHOSPHORUS in mg/L		Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L		SEDIMENTS in mg/g		SEDIMENTS in ug/g								
		DISS.	SUSP.	ORGANIC	IN ORGANIC			"A"	"B"	TOTAL	DISS. REACTIVE				"ALPHA"	"BETA"	TOTAL P	TOTAL KJEL-DAHL. N	% LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27										.007	.001																
06 10				3.0	2.2	13.9				.0200																	
06 24										.0173																	
07 08				2.6	1.8	6.7				.0132																	
08 05				2.6	2.6	10.3				.0160																	
09 10				2.6	2.4	9.9				.0082																	
10 14				2.5	2.0	5.8				.0046																	

STATION.. NORDIC LAKE NL-2

1981 MONTH DAY	pH	CONDUCTIVITY Ln umhos/cm	MEASURED IN mg/L																								
			ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N"				CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
					NH_3	IRON	NO_2	NO_3																			
04 21	6.81	590		225	.460	.80	.080	2.050	67.0	14.0	11	5.6	18.5	231	.003	.003	.003	.008	.0002	.12	.094		.002			
05 14																											
05 27					.48	.75	.069	2.10																			
06 10	6.69	620	6	242	.006	.61	.001	2.65	73	14.5	11	5.7	18.5	265						.03							
06 24					.380	.63	.050	2.050																			
07 08	6.79	620	23	247	.390	.70	.045	2.200	74.0	15.0	11	6.30	19.5	255						.02							
07 22					.390	.62	.039	2.100																			
08 05	6.76	640	10	244	.330	.61	.038	1.950	74.0	14.5	11	6.30	19.5	276						.02							
08 19					.290	.53	.041	1.900																			
09 10	6.86	660	9	274	.148	.30	.008	.705	82.8	16.4	11	6.70	19.0	269						.01							
09 24					.166	.32	.019	1.200							.007	.004	.003	.004	.0001		.099		.002				
10 14	7.10	660	11	278	.280	.38	.019	2.000	85.0	16.0	12	6.40	19.5	301						.04							

STATION .. NORDIC LAKE NL-2

1981 MONTH DAY	SOLIDS in mg/L DISS.	SOLIDS in mg/L SUSP.	DISS. CARBON in mg/L ORGANIC	DISS. CARBON in mg/L IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOR-OPHYLL in ug/L "A"	CHLOR-OPHYLL in ug/L "B"	PHOSPHORUS in mg/L TOTAL	PHOSPHORUS in mg/L DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L "ALPHA"	GROSS "A" & "B" pCi/L "BETA"	SEDIMENTS in mg/g TOTAL P	SEDIMENTS in mg/g TOTAL KJEL-DAHL N	SEDIMENTS in ug/g % LOSS ON IGNITION	SEDIMENTS in ug/g COPPER	SEDIMENTS in ug/g NICKEL	SEDIMENTS in ug/g ZINC	SEDIMENTS in ug/g LEAD	SEDIMENTS in ug/g CADMIUM	SEDIMENTS in ug/g CHROMIUM	SEDIMENTS in ug/g CALCIUM	SEDIMENTS in ug/g MAGNESIUM	SEDIMENTS in ug/g IRON
04 21			2.5	1.8	9.4				.007	.001																	
05 14						.8	.9	.3																			
05 27						.6	.7	.2	.0114																		
06 10			2.9	1.8	7.2	1.2	1.3	.4	.0147																		
06 24						.6	1.2	.9	.0166																		
07 08			2.8	1.8	7.1	.7	.8	.8	.0082																		
07 22						.4	.5	.3	.0121																		
08 05			2.7	2.0	12.6	.6	.6	.3	.0129																		
08 19						.7	.9	.3	.0065																		
09 10			2.9	2.0	4.5	.2	.3	.1	.0043																		
09 24									.0041																		
10 14			3.0	1.8	3.1	.5	.6	.2	.0045							1.9	7.3	23	48	39	150	140	1.4	40			34000

STATION.. NORDIC LAKE NL-28

1981 MONTH DAY	pH	CONDUCTIVITY in units/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	ACIDITY as CaCO3	NITROGEN AS "N": NH_3	ORG.	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
05 27						5.04	.073	1.45																		
06 10	6.89	1850	216	788		14.7	.009	.02	225	55.0	42	52.5	48.0	821						.67						
06 24					10.6	10.8	.033	.680																		
07 08	8.05	1850	7	737	5.5	16.0	.003	.060	203	56.0	42	52.5	48.5	31						.98						
08 05	7.06	1800	205	676	13.5	14.4	.012	.260	185	52.0	39	39.0	46.5	764						.61						
09 10	6.83	1750	205	690	12.6	14.2	.004	.210	191	51.6	41	44.2	45.0	730						.55						
10 14	7.09	540	197	639	11.9	13.0	.017	.455	170	52.0	39	44.9	45.0	667						.54						

STATION .. NORDIC LAKE NL-28

1981 MONTH DAY	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	IN ORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOROPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Ng in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pCi/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	SEDIMENTS in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.009	.001																	
06 10			7.8	63	45.4				.0300																		
06 24									.0240																		
07 08			7.7	57.6	53.8				.0470																		
08 05			6.3	63.6	50.3				.0120																		
09 10			7.1	49.0	40.4				.0180																		
10 14			7.4	35.0	37.3				.0240																		

STATION.. NORDIC LAKE ML-3

MONTH DAY 1981	pH	CONDUCTIVITY in umhos/cm	MEASURED IN mg/L: ALKALINITY as CaCO3	HARDNESS as CaCO3	NITROGEN AS "N": NH_3	TKN	NO_2	NO_3	CALCIUM	MAGNESIUM	SODIUM	POTASSIUM	CHLORIDE	SULPHATE	COPPER	NICKEL	LEAD	ZINC	CADMIUM	IRON	ALUMINUM	COBALT	CHROMIUM	BARIUM	MANGANESE	ARSENIC
05 27					.47	.76	.076	2.05																		

STATION .. NORDIC LAKE ML-3

MONTH DAY 1981	SOLIDS in mg/L: DISS.	SUSP.	DISS. CARBON in mg/L: ORGANIC	INORGANIC	APPARENT COLOUR	CORRECTED "A"	CHLOROPHYLL in ug/L: "A"	"B"	PHOSPHORUS in mg/L: TOTAL	DISS. REACTIVE	Hg in ug/L	Ra in pCi/L	U in ug/L	GROSS "A" & "B" pC1/L: "ALPHA"	"BETA"	SEDIMENTS in mg/g: TOTAL P	TOTAL KJEL-DAHL N	in ug/g: % LOSS ON IGNITION	COPPER	NICKEL	ZINC	LEAD	CADMIUM	CHROMIUM	CALCIUM	MAGNESIUM	IRON
05 27									.006	.001																

MINISTRY OF ENVIRONMENT

SAULT STE. MARIE

DISTRICT OFFICE

DATA

STATION .. D - 2 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

MEASURED IN mg/L

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 15	7.97	31	7.86	6	2484	2490	53.5	51.0	1.63	83.4	11.0	.004	.04	.06	.90	.030	.450	<.03	.02	.34 *
05 11	8.37	47	14.47	<15	3090	3090		47.0	4.50	110.0	14.0		.08	.012	.20	.005	.152	<.003	.01	
08 20	7.70	28	8.13	<15	3700	3700	36.0	36.0	8.10	68.9	19.0		.04	.04	.04	<.02	.260	<.03	.02	
11 30	9.00	87	0	<15	3030	3030	38.0	37.0	2.68	96.1	7.0		.10	<.02	<.03	<.02	.060	<.03	.02	

STATION: D2

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pCi/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pCi/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pCi/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pCi/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pCi/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pCi/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pCi/L	LEAD-210 DISSOLVED mBq/L
01 15							4	150												
05 11	220	1500	237	26	66	2440	2	74											<2	<74
08 20	648	76	253	410	26	960	1	37											<1	<37
11 30	616	1320	185	170	120	4440	2	74											<1	<37

*Approximate Results

STATION .. D - 3 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

MEASURED IN mg/L

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 15	7.90	79	1.99	5	777	782	1.54	.09	.17	1.2	.8	.057	.03	<.03	1.20	<.02	.034	<.03	.01	.04*
05 11	8.51	68	0	<15	590	590	1.80	<.10	.09	.8	1.4		.07	.002	.34	.002	.020	<.003	.01	
11 30	10.00	65	0	<15	1160	1160	5.40	3.90	1.23	6.6	1.0		.04	<.02	.08	<.02	<.02	<.03	.01	

STATION: D3

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pCi/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pCi/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pCi/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pCi/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pCi/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pCi/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pCi/L	LEAD-210 DISSOLVED mBq/L
01 15							4	150												
05 11	28	160	160	130	22	810	18	670											4	150
11 30	152	470	171	7	20	740	15	560											<1	<37

*Approximate Results

STATION .. DS - 1 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

MEASURED IN mg/L

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 15	11.64	537	0	7	2973	2980	5.44	4.8	.09	7.4	.2	.001	.03	<.02	.01	<.02	.002	<.03	<.01	<.01
05 11	10.82	59	0	<15	3320	3320	2.60	1.4	.11	4.0	1.3		.02	.003	.032	.004	.027	<.003	.004	
11 30	9.90	74	0	<15	2930	2930	2.60	1.9	.37	5.4	1.0		.08	<.02	.04	<.02	<.02	<.03	.01	

STATION: DS1

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
05 11	1300	940	672	17	1	37	<1	<37											<2	<74
11 30	616	1160	544	<3	<1	<37	<1	<37											<1	<37
01 15							1	37												

STATION .. DS - 4 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	MEASURED IN mg/L: ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 15	11.66	525	0	9	3105	3114	5.28	4.85	.11	6.9	.10	.001	.020	<.02	.25	<.02	.014	<.03	<.01	<.01
05 11	9.91	21	0	<15	2780	2780	1.40	.80	.15	2.7	.69		.044	.002	.18	.002	.020	<.003	.017	
11 30	8.90	27	0	<15	2960	2960	2.00	1.70	.47	4.4	2.00		.040	<.02	.50	<.02	.040	<.03	<.01	

STATION: DS4

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 15							1	37												
05 11	8500	840	555	14	3	110	3	110											<2	<74
11 30	630	1130	109	10	2	74	2	74											<1	<37

STATION .. Q - 3 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	MEASURED IN mg/L: ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS: RSP	RSF	RST	NITROGEN AS "N": TKN	NH_3	NO_2	NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 15	9.07	89	0.0	19	3137	3156	76.0	66.0	4.0	105.0	13.0	.001	.07	<.02	1.70	<.02	.170	<.03	<.01	<.12
05 12	7.10	27	18.1	<15	2910	2910			3.3	120.0	18.0		.066	.022	.96	.025	.360	.007	.013	
08 20	7.20	14	17.1	<15	3200	3200	50.0*	50.0*	3.7	74.3	15.0		.04	.04	1.90	.04	.40	<.03	.02	
11 30	5.30	1	0.0	30	3010	3040	88.0*	88.0	5.6	111.0	32.0		.05	.06	11.00	.04	.57	<.03	.02	

STATION: Q 3

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	DISSOLVED GROSS α pC1/L	DISSOLVED GROSS α mBq/L	DISSOLVED GROSS β pC1/L	DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	UNDISSOLVED GROSS α pC1/L	UNDISSOLVED GROSS α mBq/L	UNDISSOLVED GROSS β pC1/L	UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 15							2	74												
05 12	3500	1800	23	150	32	1180	1	37											<2	<74
08 20	656	87	25	4	13	480	<1	<37											<1	<37
11 30	600	1900	26	120	270	9990	4	150											5	190

*Approximate Results

STATION .. Q - 12 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

MEASURED IN mg/L

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 15	7.80	18	.63	1	34	35	.34	.12	.002	.16	.82	.001	.04	<.02	.66	<.02	.162	<.03	.01	<.01
05 12	7.10	8	1.36	<15	30	30	2.20	.2	<.01	<.1	.93		.05	<.0005	.28	.001	.098	<.003	.02	
08 20	7.60	10	1.47	<15	50	50	1.60	<.1	.01	.3	0.00		.02	<.02	.11	<.02	.030	<.03	<.01	
11 30	6.50	11	1.48	<15	45	45	2.80	.2	<.01	.2	1.00		.06	<.02	.18	<.02	.090	<.03	.01	

STATION: Q 12

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 15							<1	<37												
05 12	5.3	2	1	<3	1	37	<1	<37											<2	<74
08 20	6	8	2	3	<1	<37	<1	<37											<1	<37
11 30	6	9	1	<3	<1	<37	<1	<37											<1	<37

STATION: N - 12 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	MEASURED IN mg/L: ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS: RSP	RSF	RST	NITROGEN AS "N": TKN	NH_3	NO_2	NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 16	6.98	18	4.89	14	914	928	3.7	3.2	.16	3.9	29.0	.001	.04	<.02	1.60	<.02	.34	<.03	.02	.02*
05 12	6.70	33	7.30	<15	620	620	3.2	2.1	.52	1.8	24.0		.04	.002	1.00	.003	.18	<.003	.012	
08 20	7.10	3	8.27	<15	1560	1560	1.0	.4	.28	.5	41.0		.02	<.02	.79	<.02	.25	<.03	.02	
12 01	6.30	9	3.24	<15	765	765	3.0	3.0	.08	2.9			.12	<.02	1.00	<.02	.21	<.03	.02	

STATION: N 12

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 16							2	74												
05 12	150	370	13	6	3	110	2	74											<2	<74
08 20	308	900	26	18	5	190	4	150											<1	<37
12 01		440	13	5	2	74	.1	.37											<1	<37

*Approximate Results

STATION .. N - 15 MINSITRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

MEASURED IN mg/L

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 16	3.96	2	30.50	6	297	303	.9	.7	.001	.14	7.7	.001	.03	.05	1.20	.06	1.60	<.03	.06	.02*
05 12	4.66	0	13.00	<15	290	290	.4	.1	<.01	<.10	7.3		.06	.04	.14	.04	.82	.002	.08	
08 20	7.60	16		<15	390	390	.6	<.1	.01	<.10	6.0		.01	<.02	2.20	<.02	.45	<.03	<.01	
12 01	4.50	0	27.70	<15	315	315	.6	.4	<.01	.20	9.0		.15	.05	.81	.05	1.50	<.03	.07	

STATION: N 15

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 16							3	110												
05 12	35	8	58	<3	3	110	3	110											<2	<74
08 20	29	60	127	<3	1	37	1	37											<1	<37
12 01	37	154	41	<3	3	110	3	110											<1	<37

*Approximate Results

STATION .. N - 19 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
		MEASURED IN mg/L																		*
01 16	8.37	33	0	4	1850	1854	10.1	9.8	.55	6.2	64.0	.001	.02	<.02	.03	<.02	.16	<.03	<.01	.04
05 12	8.61	209	3.95	<15	1810	1810	9.8	9.4	1.10	5.6	70.0		.04	.002	.45	.002	.13	.008	.01	
08 20	8.10	34	.28	<15	2120	2120	6.2	0	.27	6.2	56.0		.02	<.02	.21	<.02	.10	<.03	<.01	
12 01	8.20	37	0	<15	2040	2040	9.8*	9.8	.50	6.3			.05	<.02	.11	<.02	.23	<.03	<.01	

STATION: N 19

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 16							1	37												
05 12	190	1080	24	22	3	110	2	74											<2	<74
08 20	428	1300	22	3	1	37	1	37											<1	<37
12 01		1160	23	23	2	74	<1	<37											<1	<37

*Approximate Results

STATION .. P - 11 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	MEASURED IN mg/L																		
		ALKALINITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS			NITROGEN AS "N"				MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
				RSP	RSF	RST	TKN	NH_3	NO_2	NO_3										
01 15	5.78	4	3.98	4	87	91	.9	.16	.002	.13	1.20	.001	.04	<.02	1.00	<.02	.198	<.03	.02	<.01
05 12	5.57	2	2.75	<15	100	100	.6	<.10	<.010	<.10	1.10		.06	.007	.43	.007	.100	.008	.04	

STATION: P 11

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226				SOLIDS										LEAD-210	
					TOTAL		DISSOLVED		DISSOLVED					UNDISSOLVED					DISSOLVED	
					pC1/L	mBq/L	pC1/L	mBq/L	SOLIDS mg/L	GROSS α pC1/L	GROSS α mBq/L	GROSS β pC1/L	GROSS β mBq/L	SOLIDS mg/L	GROSS α pC1/L	GROSS α mBq/L	GROSS β pC1/L	GROSS β mBq/L	pC1/L	mBq/L
01 15							6	220												
05 12	15	3	4	<3	14	520	14	520											3	110

STATION .. P - 13 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	MEASURED IN mg/L																		
		ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS			NITROGEN AS "N"				MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
				RSP	RSF	RST	TKN	NH_3	NO_2	NO_3										
01 15	5.29	6	11.?	7	2153	2160	5.6	4.8	.31	4.5	16.0	.001	.06	.020	1.1	.05	.59	<.03	.05	.10*
05 12	4.88	1	9.44	<15	1610	1610	3.8	3.5	1.70	5.4	8.8		.07	.015	1.2	.02	.34	.009	.06	
08 20	5.60	2	11.89	<15	2300	2300	5.2	5.0	.30	9.0	5.0		.03	<.02	1.0	.03	.31	<.03	.07	
11 30	4.40	0	19.27	<15	2310	2310	5.0	4.8	1.55	8.8	6.0		.04	<.02	1.2	.03	.31	<.03	.08	

STATION: P 13

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226				SOLIDS										LEAD-210	
					TOTAL		DISSOLVED		DISSOLVED					UNDISSOLVED					DISSOLVED	
									SOLIDS	GROSS α		GROSS β		SOLIDS	GROSS α		GROSS β			
					pC1/L	mBq/L	pC1/L	mBq/L	mg/L	pC1/L	mBq/L	pC1/L	mBq/L	mg/L	pC1/L	mBq/L	pC1/L	mBq/L	pC1/L	mBq/L
01 15							74	2740												
05 12	150	80	44	140	170	6290	160	5920											4	150
08 20	472	1180	67	150	200	7400	230	8510											5	190
11 30	492	1475	77	200	260	9620	240	8880											<1	<37

STATION .. P - 14 MINISTRY OF THE ENVIRONMENT SAULT STE.MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
	MEASURED IN mg/L																			
01 15	9.79	24	0.00	6	2198	2204	4.7	4.4	.33	4.4	14.0	.001	.05	<.02	.02	<.02	.04	<.03	<.01	.05*
05 12	8.49	17	.51	<15	1580	1580	3.4	3.0	1.70	5.2	9.3		.06	.011	.06	.009	.13	<.003	.019	
08 20	8.90	25	0.00	<15	2190	2190	3.2	2.9	.56	8.7	0.0		.04	<.02	<.03	<.02	.04	<.03	<.01	
11 30	8.90	37	0.00	<15	2330	2330	4.4	4.2	1.64	8.4	12.0		.04	<.02	<.03	<.02	.07	<.03	<.01	

STATION: P 14

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 15							<1	<37												
05 12	7300	79	45	67	5	190	1	37											<2	<74
08 20	472	1140	69	3	1	37	2	37											<1	<37
11 30	504	1425	80	47	10	370	2	74											<1	<37

*Approximate Results

STATION .. CL - 4 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

MEASURED IN mg/L

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 16	7.12	19	2.97	3	410	413	.5	.23	.01	.14	3.7	.001	.02	<.02	.18	<.02	.20	<.03	<.01	<.01
05 12	8.30	22	.97	<15	385	385	.6	.20	.01	.10	3.1		.04	.002	.24	.002	.05	<.003	.02	
08 20	8.20	28	.88	<15	425	425	.6	.10	.02	.40	3.0		.04	<.02	.10	<.02	.03	<.03	<.01	
12 01	7.70	22	1.31	<15	420	420	.6	.10	.02	.50	4.0		.06	<.02	.44	<.02	.14	<.03	<.01	

STATION: CL 4

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 16							7	260												
05 12	64	150	50	<1	6	220	6	220											<2	<74
08 20	74	160	46	1	7	260	7	260											<1	<37
12 01	82	190	48	1	11	410	1.	270											<1	<37

STATION .. M - 1 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	MEASURED IN mg/L: ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS: RSP	SOLIDS: RSF	SOLIDS: RST	NITROGEN AS "N": TKN	NITROGEN AS "N": NH_3	NITROGEN AS "N": NO_2	NITROGEN AS "N": NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 16	6.08	13	13.20	17	244	261	2.7	2.1	.04	.21	5.7	.001	.04	.02	4.4	<.02	.62	<.03	.03	.05*
05 12	6.61	5	2.53	<15	195	195	2.2	1.4	.02	.10	5.2		.05	.02	1.5	.02	0.55	.003	.03	
08 20	7.60	5	4.57	<15	320	320	.8	.4	.03	<.10	7.0		.02	.02	1.0	.03	.88	<.03	.02	
12 01	7.40	9	2.73	<15	210	210	1.6	.8	.01	.40	4.0		.10	<.02	1.7	<.02	.65	<.03	.03	

STATION: M-1

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 16							2	74												
05 12	26	69	51	26	2	74	2	74												
08 20	28	86	49	<3	4	150	4	150											<2	<74
12 01	24	68	45	4	1	37	.1	.37											<1	<37
																			<1	<37

*Approximate Results

STATION .. PR - 1 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

MEASURED IN mg/L

1981 MONTH DAY	pH	ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS RSP	SOLIDS RSF	SOLIDS RST	NITROGEN AS "N" TKN	NITROGEN AS "N" NH_3	NITROGEN AS "N" NO_2	NITROGEN AS "N" NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 16	7.20	79	10.60	31	791	822	.7	.27	.013	.08	15.0	.001	.02	<.02	4.60	<.02	.68	<.03	<.01	.06 *
05 12	7.31	17	2.24	<15	20400	20400	.4	<.1	.02	<.10	5.0		.05	.002	.10	.004	.02	<.003	.014	
08 20	7.50	84		45	660	705	.6	<.1	<.01	<.10	7.0		.05	<.02	2.40	.02	.16	<.03	.01	
12 01	6.10	11	1.77	<15	890	890	.6	.3	.01	.10	28.0		.10	<.02	.34	.09	.23	<.03	.03	

STATION: PR 1

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pC1/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pC1/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pC1/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pC1/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pC1/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pC1/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pC1/L	LEAD-210 DISSOLVED mBq/L
01 16							1	37												
05 12	152	310	15	7	2	74	2	74											<2	<74
08 20	178	400	24	44	5	190	3	110											<1	<37
12 01	195	680	19	15	2	74	2	74											<1	<37

*Approximate Results

STATION .. PR - 4 MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT OFFICE DATA

1981 MONTH DAY	pH	MEASURED IN mg/L: ALKALANITY AS $CaCO_3$	ACIDITY AS $CaCO_3$	SOLIDS: RSP	RSF	RST	NITROGEN AS "N": TKN	NH_3	NO_2	NO_3	MAGNESIUM	TOTAL "P" AS PO_4	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC	URANIUM UNFILT. TOTAL
01 16	7.58	55	4.18	5	876	881	.4	.24	.012	.54	22.0	.001	.02	<.02	.20	<.02	.088	<.03	<.01	.05*
05 12	9.02	11	0.00	<15	635	635	.6	.10	<.01	<.10	8.0		.05	.001	.24	.005	.017	<.003	.02	
08 20	10.60	54	0.00	<15	980	980	1.0	.50	.02	<.10	1.0		.03	<.02	.45	<.02	.03	<.03	<.01	
12 01	4.70	0	28.44	15	1020	1020	1.0	.80	.01	.10	35.0		.71	.05	4.10	.48	.90	<.03	.08	

STATION: PR 4

1981 MONTH DAY	CALCIUM (mg/L)	SULPHATE (mg/L)	CHLORIDE (mg/L)	URANIUM-238 (ug/L)	RADIUM-226 TOTAL pCi/L	RADIUM-226 TOTAL mBq/L	RADIUM-226 DISSOLVED pCi/L	RADIUM-226 DISSOLVED mBq/L	SOLIDS DISSOLVED SOLIDS mg/L	SOLIDS DISSOLVED GROSS α pCi/L	SOLIDS DISSOLVED GROSS α mBq/L	SOLIDS DISSOLVED GROSS β pCi/L	SOLIDS DISSOLVED GROSS β mBq/L	SOLIDS UNDISSOLVED SOLIDS mg/L	SOLIDS UNDISSOLVED GROSS α pCi/L	SOLIDS UNDISSOLVED GROSS α mBq/L	SOLIDS UNDISSOLVED GROSS β pCi/L	SOLIDS UNDISSOLVED GROSS β mBq/L	LEAD-210 DISSOLVED pCi/L	LEAD-210 DISSOLVED mBq/L
01 16							1	37												
05 12	180	350	11	4	1	37	<1	<37											<2	<74
08 20	245	620	18	<3	2	74	2	74											<1	<37
12 01	200	690	17	110	2	74	<1	<37											<1	<37

*Approximate Results

STATION... LAKE D (LK - D) MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT DATA (Sampled By Rio Algom)

MEASURED IN mg/L

1981 MONTH DAY	pH	TURBIDITY IN FORMAZIN UNITS	CONDUCTIVITY IN umhos/cm	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	HARDNESS as $CaCO_3$	CHLORIDE as Cl	FLOURIDE as F	BARIUM	MAGNESIUM	SULPHATE	CHROMIUM	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC
01 21	6.3	1.1	65	5		21	7								0.15				
02 04	6.6	2.0	62	5		21	8								0.20				
03 04	6.4	1.5	69	6		23	7								0.34				
04 01	6.8	4.1	68	6		27	7								0.44				
05 06	6.5	2.7	65	7		20	6								0.76				
06 03	7.6	2.8	64	5		20	5								0.07				
07 01	6.8	1.1	69	7		21	8								0.15				
08 05	7.2	0.91	67	6		23	8								0.23				
09 03	7.0	1.8	72	3		21	8								0.43				
10 02	6.8	1.5	67	8		21	7								0.31				
11 04	7.5	2.4	67	5		22	7								0.32				

STATION.. RYAN LAKE (RY - LK) MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT DATA (Sampled By Rio Algom)

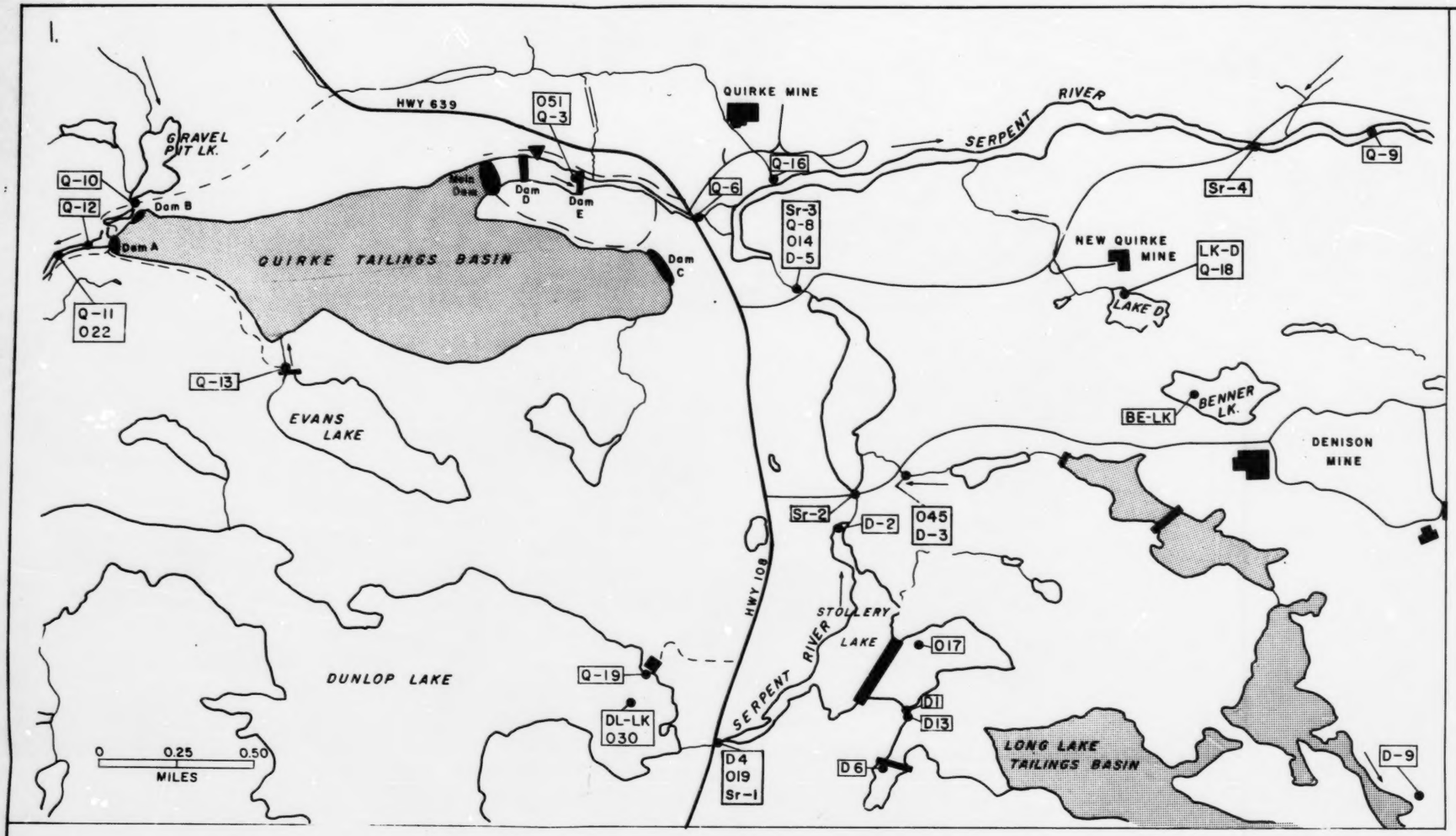
1981 MONTH DAY	pH	TURBIDITY IN FORMAZIN UNITS	CONDUCTIVITY IN umhos/cm	MEASURED IN mg/L															
				ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	HARDNESS as $CaCO_3$	CHLORIDE as Cl	FLOURIDE as F	BARIUM	MAGNESIUM	SULPHATE	CHROMIUM	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC
01 21	6.5	1.1	64	14		24	4								0.06				
03 04	6.6	1.2	62	14		26	4								0.20				
04 01	6.7	2.5	62	15		30	4								0.08				
05 06	7.0	1.4	56	16		23	3								0.24				
06 03	7.6	0.86	59	16		30	2								<0.01				
07 01	7.4	1.2	59	17		23	6								0.10				
08 05	7.3	0.55	60	16		31	3								0.04				
11 04	8.4	0.82	78	20		31	4								0.12				

STATION.. DUNLOP LAKE (DL - LK) MINISTRY OF THE ENVIRONMENT SAULT STE. MARIE DISTRICT DATA (Sampled by Rio Algom)

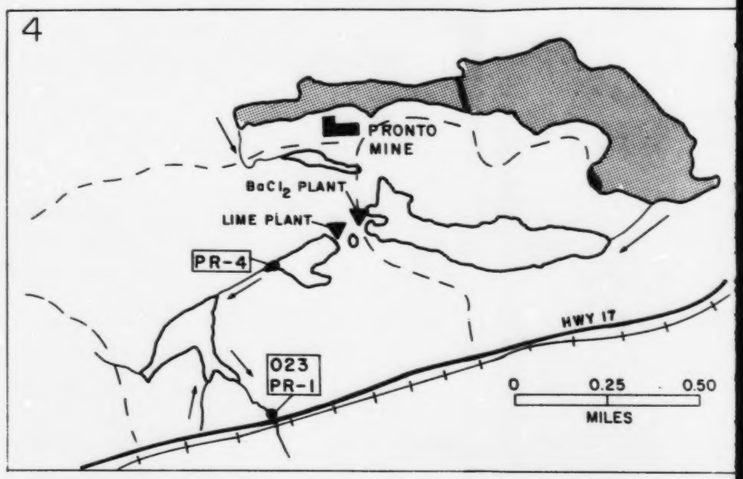
MEASURED IN mg/L

MONTH DAY 1981	pH	TURBIDITY IN FORMAZIN UNITS	CONDUCTIVITY IN umhos/cm	ALKALINITY as $CaCO_3$	ACIDITY as $CaCO_3$	HARDNESS as $CaCO_3$	CHLORIDE as Cl	FLOURIDE as F	BARIUM	MAGNESIUM	SULPHATE	CHROMIUM	COPPER	NICKEL	IRON	COBALT	MANGANESE	LEAD	ZINC
01 21	6.9	0.50	38	8		14	1								0.05				
02 04	7.5	0.70	38	9		13	1								0.08				
03 04	7.1	0.52	40	7		14	1								0.04				
04 01	7.2	1.2	40	7		15	1								0.07				
05 06	6.5	0.40	34	8		12	1								0.11				
06 03	8.1	0.82	35	7		13	<1								0.11				
07 01	7.5	0.63	37	11		13	3								0.03				
08 05	8.0	0.52	37	9		13	3								0.17				
09 03	7.8	0.47	35	5		17	<1								0.08				
10 02	7.4	1.0	38	12		14	<1								0.03				
11 04	7.9	0.72	35	7		13	<1								0.04				

1.


HWY 639
051
Q-3
QUIRKE MINE
Q-16
SERPENT RIVER
Q-9
GRAVEL PIT LK.
Q-10
Q-12
Dam B
Main Dam
Dam D
Dam E
Q-6
Sr-4
Sr-3
Q-8
014
D-5
Dam A
QUIRKE TAILINGS BASIN
Dam C
NEW QUIRKE MINE
LK-D
Q-18
LAKE D
Q-11
022
Q-13
EVANS LAKE
BE-LK
BENNER LK.
DENISON MINE
Sr-2
D-2
045
D-3
HWY 108
STOLLERY LAKE
017
SERPENT RIVER
Q-19
DUNLOP LAKE
DL-LK
030
D1
D13
D4
019
Sr-1
D6
LONG LAKE TAILINGS BASIN
D-9
0 0.25 0.50
MILES

4


PRONTO MINE
$BaCl_2$ PLANT
LIME PLANT
PR-4
HWY 17
023
PR-1
0 0.25 0.50
MILES

3

SR-6
036
STROUTH LAKE

VER

Q-9

Sr-4

NEW QUIRKE MINE

LK-D
Q-18

LAKE D

BENNER LK.

BE-LK

DENISON MINE

AKE
S BASIN

D-9

4

PRONTO MINE

$BaCl_2$ PLANT

LIME PLANT

PR-4

023
PR-1

HWY 17

0 0.25 0.50
MILES

1

2

3

4

OLD QUIRKE

011

Q-15

DUNLOP LK.

NEW QUIRKE

071

Q-32

DENISON

PANEL

D10
049
SR-1

034

CANMET

033

SPANISH-AMERICAN

STANROCK

031

012

070
DS4

DS1

055
MAY LAKE

KINDLE LAKE

CROTCH LK

McCABE LAKE

054

ELL-5

ELL-4

ELL-2

ELL-1

STANLEIGH

041

035

ELLIOT LAKE

MILLIKEN

LACNOR

HOUGH LAKE

PECORS LAKE

NORDIC

004
SR-2
PEC-1

N-1

BC-4

ML-1

NORDIC LK

003
SR-3
PEC-0

BC-5

EL-3

ESTEN LK

BC-6

UL-1

NL-2

NL-3

BC-7

DEPOT LAKE

DL-2

ELI
067

EL2

EL4

DL-1

002

McL-1
039

McL-2

GL-1

DL-3

McCARTHY LAKE

McL-5

MAL-1

MAL-2

TL-1

TROUT LAKE

McL-6

MARSHLAND LAKE

GL-2

McL-4

GRANDEUR LAKE

040
McL-3

SERPENT RIVER

TURTLE CREEK

HWY 108

0 1 2
MILES

037

001

038

SERPENT RIVER INDIAN RESERVE

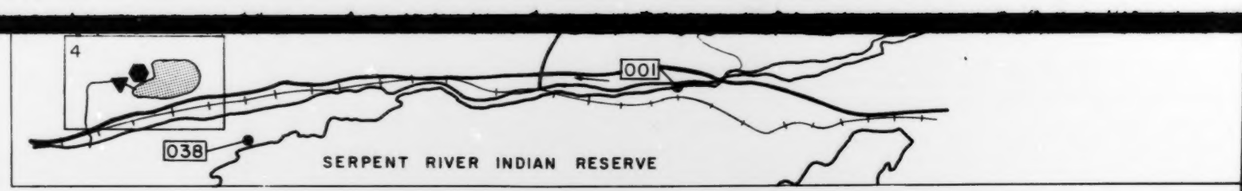
SR-6

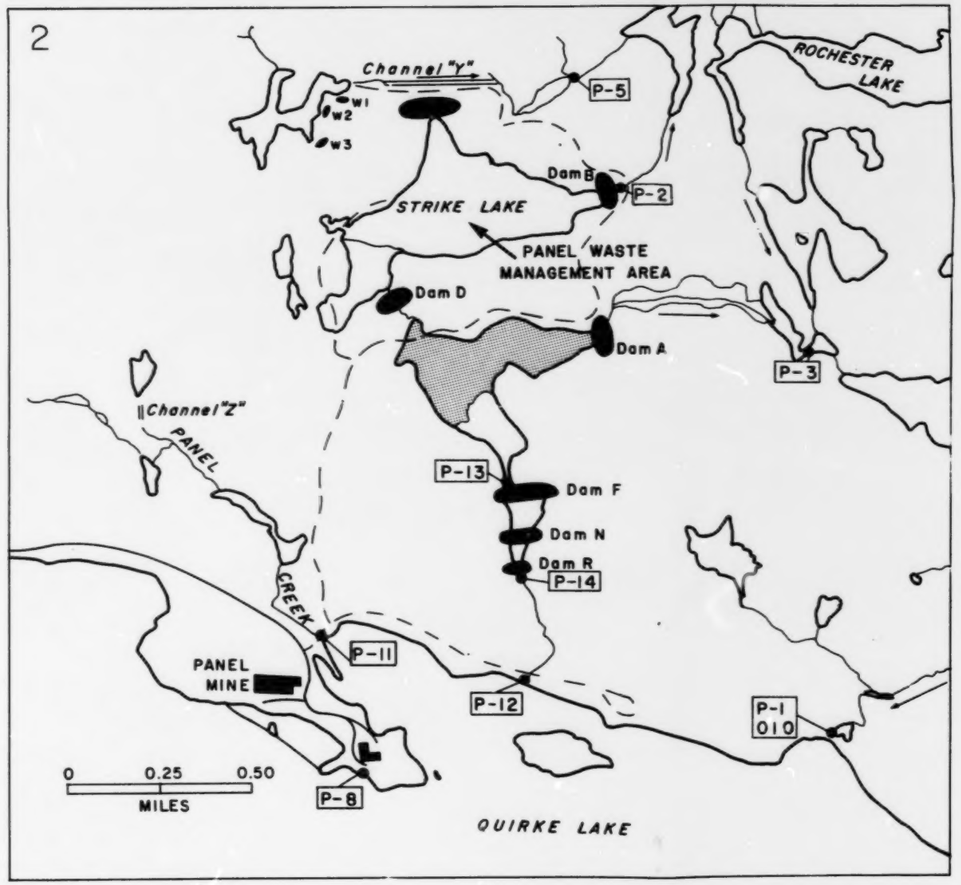
036

STROUTH LAKE
S-1
PENELOPE LAKE
STANLEIGH MINE SITE
S-2
BEAVER LAKE
S-3
MILLIKEN MINE SITE
CROTCH LAKE
CL-4
006
036
McCABE LK
SR-5
CANYON LK
SHERIFF LAKE
M-3
FLYING GOOSE LK
ELLIOT LAKE
009
M-1
H-2
L-2
Lacnor Creek
LACNOR MINE SITE
ETL
STP
HORNE LAKE
H-1
L-1
DUMBELL LAKE
SR-4
027
044
N-15
PEARL LK
Buckles Creek
POND 'A'
WESTNER LAKE
TOWN OF
ELLIOT LAKE
HWY 108
NORTH NORDIC LAKE
N-13
NORDIC MINE SITE
RY-LK
RYAN LK
BC-2
043
N-19
BC-1
PORRIDGE LAKE
007
N-12
BC-3
0 0.25 0.50
MILES

2

SERPE





LEGEND

- MINE SITE
- MAJOR ROADWAY
- SECONDARY ROADWAY
- TAILINGS
- TREATMENT PLANT
- NEW TREATMENT PLANT
- WATER SAMPLING LOCATIONS

SERPENT RIVER DRAINAGE BASIN